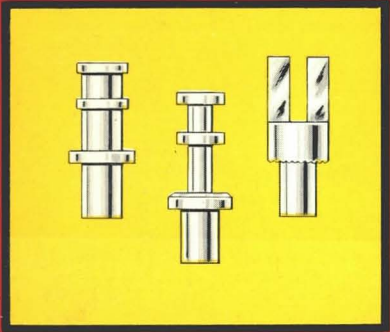
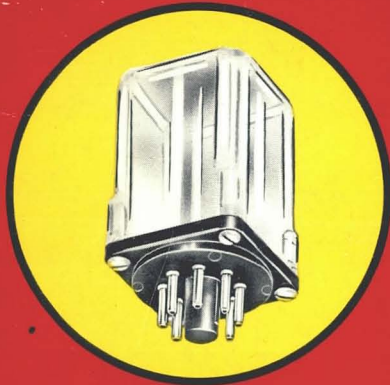


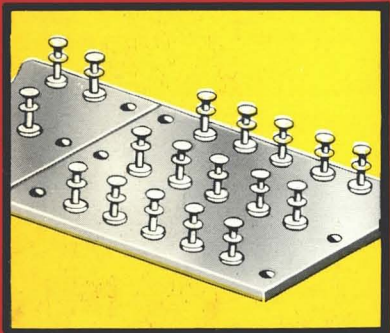
BATTERY HOLDERS



TERMINALS



PLUG-IN HOUSINGS



TERMINAL BOARDS

KEYSTONE



STANDARDIZED

ELECTRONIC COMPONENTS

CAT. NO. 678

KEYSTONE ELECTRONICS CORP.

49 BLEECKER ST., NEW YORK N.Y. 10012

(212) 475-4600

"Standardize" with

KEYSTONE



★ This catalog was designed for cost-minded purchasing agents and engineers who are looking for service, quality and reliability through **"STANDARDIZATION."**

KEYSTONE ELECTRONICS CORP. has been serving the nation's leading Manufacturers and the Armed Forces for the past two decades. Our reputation is based on know-how and cost saving principles.

To avoid tooling and set-up charges KEYSTONE has developed a wide line of **"STANDARDIZED"** components which are available from stock, and economical.

Standard products listed in this catalog that cannot be used as shown, can be modified to suit your needs, or custom-fabricated to your specifications.

We invite your inquiries regarding modifications or custom-fabrication.

STANDARD STOCK: All orders are handled promptly.

QUALITY CONTROL: Each item from standard to special is carefully inspected before, during and after fabrication.

CUSTOM-FABRICATION: We are equipped to produce economically short and long runs of special assemblies made to your specifications.

PILOT RUNS: Our many years of experience go into the handling of short production runs.

DESIGN: A staff of designers and engineers of unmatched skill and experience offer their invaluable assistance in handling your orders.

TOOLING: Standardized tooling is used wherever possible to reduce tooling costs, permit speed in manufacturing of quality parts, and at the lowest prices.

MATERIALS: The highest grades of insulating materials, metals, marking, coating and finishes assure you that your fabricated parts will be of uniform quality. Materials meet Military Specifications.

QUOTATIONS: Regardless of quantity, all inquiries are carefully analyzed and promptly quoted. "Rush" requests are given special consideration.

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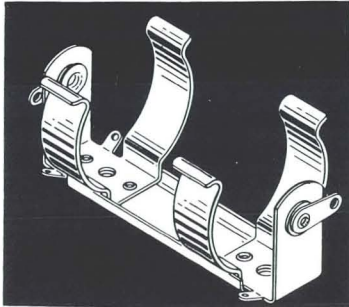
All products unconditionally guaranteed against defects in material and workmanship.

NUMERICAL INDEX OF CATALOG NUMBERS ON PAGES 42, 43, and 44

KEYSTONE ALL STEEL BATTERY HOLDERS FOR RUGGED SERVICE

STANDARDIZED ALL STEEL BATTERY HOLDERS

An important advance in design that has gained wide acceptance for military and commercial usage. Battery when installed is held under spring tension at a constant pressure assuring low resistance contact will hold up to 4 cells in series in sturdy insulating tube. Retainer clips available to lock battery securely. This prevents shifting or loosening of battery in holder. Recommended for use where shock or severe vibration is encountered.



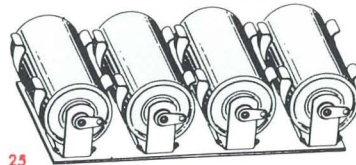
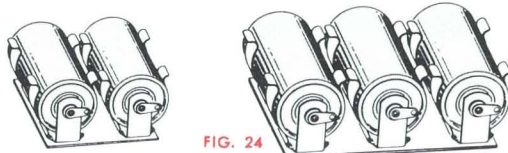
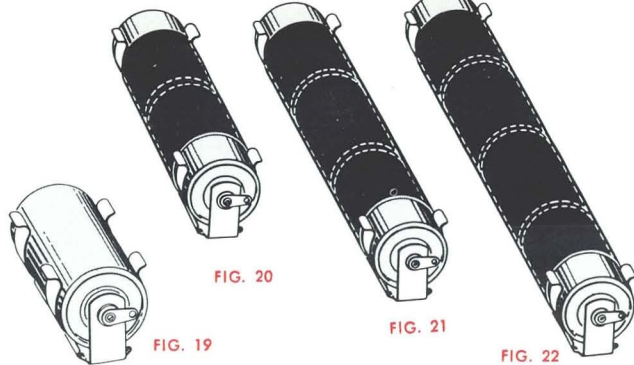
- CORROSION RESISTANT NICKEL PLATED
- STAINLESS STEEL CONTACTS
- MOISTURE PROOF INSULATING WASHERS
- IDEAL FOR NI-CAD • ALKALINE • MERCURY AND CARBON ZINC CELLS

SPECIFICATIONS

Made of SAE 1065 Carbon Steel to MIL Spec. 17919, heat treated to spring temper and nickel plated .0002 thick. Contact assembly consists of a stainless steel eyelet, moisture proof vulcooid washers and a coated copper solder lug. Ribbed stainless steel base for added support has 2 mounting holes for ease in mounting.

AVAILABLE FROM STOCK

INSULATOR TUBES SUPPLIED FOR 2-3-4 CELLS END TO END



No. 1100 SERIES		No. 2100 SERIES		ALL BATTERIES LISTED WITHIN BOXES ARE IN THE SAME SIZE GROUP BATTERY CROSS REFERENCE			
DIMPLE CONTACT	INSULATED CONTACT	INSULATED CONTACTS					
ONE INSULATED CONTACT	ALL CONTACTS INSULATED						
CAT. NO.	CAT. NO.	FIG. NO.	HOLDS NO. OF CELLS	BURGESS	EVEREADY	RCA	MALLORY
PENCIL HOLDERS							
1139	2139	19	1	Z, HG9	E9, E12	VS034A	RM12R
	2140*	23	2	CD6, 9R	E91, E133	VS144	ZM9
	2171*	24	3	HG12R	E502, N46	VS149	TR133
	2182*	25	4	H133	515, 915	VS313A	M-15F
1189	2189	20	2	HG502R	1015	VS334	M-15R
1191	2191	21	3	920	BA58		
1194	2194	22	4	930			
"C" CELL HOLDERS							
1173	2173	19	1		E93	VS035A	TR233
	2174*	23	2	1	226	VS300	M-14R
	2187*	24	3	P6	E233	VS335	M-14F
	2188*	25	4	120	635	VS400	302599
	2185	20	2	130	935		
1185	2185	20	2	H233	1035		
1195	2195	21	3	302599	BA42		
1198	2198	22	4				
"D" CELL HOLDERS							
1175	2175	19	1	2	BA30	VS036	RM42
	2176*	23	2	2R	E42	VS036A	Mn-1300
	2190*	24	3	CD7	N56	VS336	M-13R
	2192*	25	4	210	E95		M-13F
	2186	20	2	230	D99		M-13X
1186	2186	20	2		A100		
1199	2199	21	3		950		
1162	2162	22	4		1050		
1179	2179	19	1		E94		

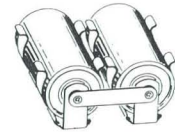
*CLIPS MOUNTED ON PHENOLIC 1/16" THICK Mil Spec 3115B

MODIFICATIONS AVAILABLE

Variety of stock parts permits fast delivery on special requirements. Use our engineering service for your special custom-built holders.

JUMPERS

Jumpers permit cost cutting and the elimination of wiring.



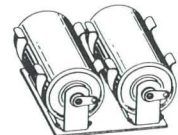
SPECIAL LUGS

Printed Circuit Solderless Connections and Quick Disconnect Lugs Available on special order.



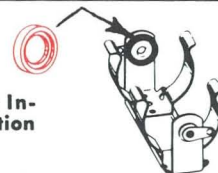
MULTIPLE UNITS

Multiple Units with Jumpers, Special Lugs and Polarized Contacts.



POLARIZED CONTACTS

Polarized Contacts Insure the proper insertion of Batteries.



SEE PAGE 3 FOR MATERIAL SPECIFICATIONS AND DIMENSIONAL DRAWINGS

KEYSTONE STEEL BATTERY HOLDERS



MATERIAL SPECIFICATIONS

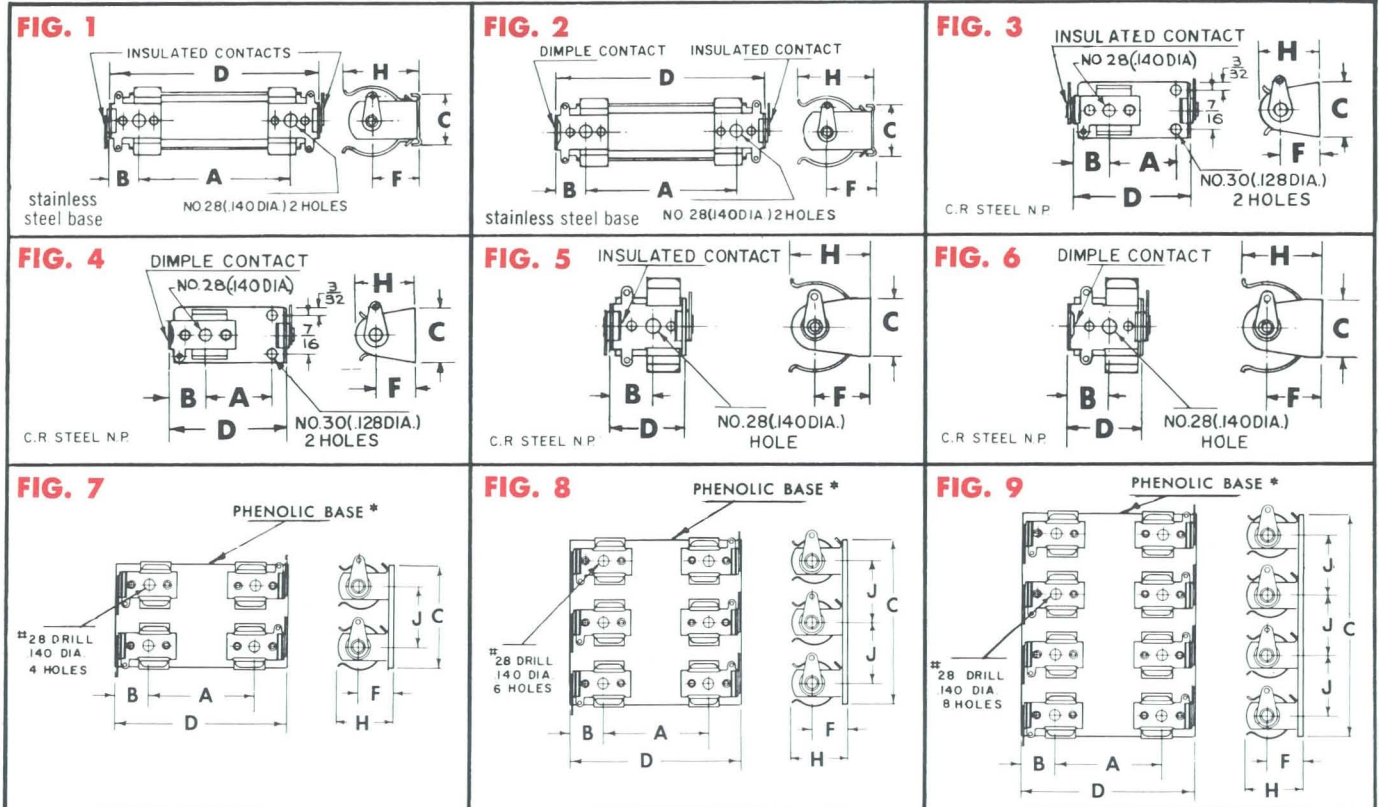
CLIPS—Carbon Steel, SAE 1065 per Mil-S-17919#4, Heated Treated to Spring Temper, Nickel Plate Finish.

CONTACT EYELETS AND BASE —Stainless Steel per Mil-S-18170 Comp 304.

INSULATING WASHERS—Resin Impregnated Fibre.

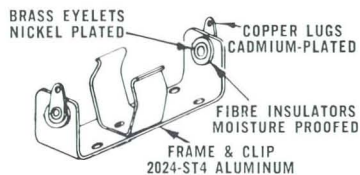
TERMINAL LUGS—Copper Per QQ-C-576A, Cad. Plated per QQ-P-416

* **PHENOLIC BASE**—Per Mil-P-3115C Type PBE.

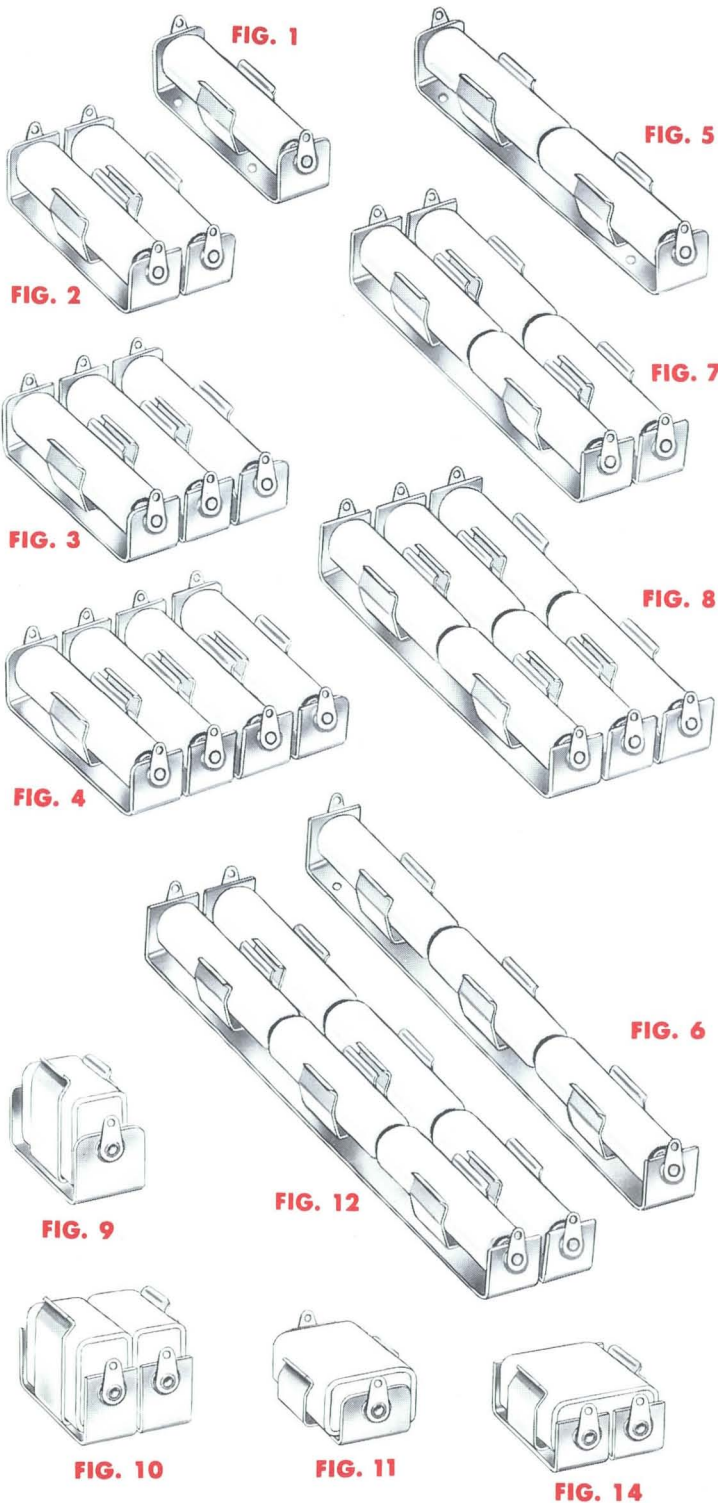


CAT. No.	FIG.	±.005 A	±.015 B	±.010 C	±.015 D	±.010 F	±.020 H	CAT. No.	FIG.	±.005 A	±.015 B	±.010 C	±.015 D	±.010 F	±.020 H	±.005 J
1101	4	.281	.391	.625	.812	.437	.656	2110	1	1.562	.391	.687	2.343	.437	.656	---
1103	6	---	.391	.625	.843	.656	1.000	2113	3	.484	.391	.625	1.031	.437	.656	---
1104	6	---	.468	.625	.890	.750	1.281	2114	3	.671	.391	.625	1.218	.437	.656	---
1109	2	1.156	.391	.687	1.937	.437	.656	2116	3	.718	.391	.625	1.281	.437	.656	---
1110	2	1.562	.391	.687	2.343	.437	.656	2119	1	1.968	.391	.687	2.750	.625	1.000	---
1113	4	.484	.391	.625	1.031	.437	.656	2120	1	3.000	.468	.687	3.937	.796	1.281	---
1114	4	.671	.391	.625	1.218	.437	.656	2121	1	1.750	.468	.687	2.687	.796	1.281	---
1116	4	.734	.391	.625	1.281	.437	.656	2125	1	3.906	.391	.687	4.687	.437	.656	---
1119	2	1.968	.391	.687	2.750	.625	1.000	2132	3	.937	.391	.625	1.484	.437	.656	---
1120	2	3.000	.468	.687	3.937	.796	1.281	2134	1	2.000	.391	.687	2.781	.437	.656	---
1121	2	1.750	.468	.687	2.687	.796	1.281	2135	1	2.625	.391	.687	3.406	.437	.656	---
1125	2	3.906	.391	.687	4.687	.437	.656	2139	1	1.343	.391	.687	2.125	.437	.656	---
1132	4	.937	.391	.625	1.484	.437	.656	2140	7	1.343	.406	1.250	2.125	.437	.656	.750
1134	2	2.000	.391	.687	2.781	.437	.656	2142	1	1.265	.391	.687	2.047	.437	.656	---
1135	2	2.625	.391	.687	3.406	.437	.656	2144	1	2.000	.391	.687	2.781	.625	1.000	---
1139	2	1.343	.391	.687	2.125	.437	.656	2145	3	.828	.391	.625	1.375	.437	.656	---
1142	2	1.265	.391	.687	2.047	.437	.656	2162	1	8.687	.468	.687	9.625	.796	1.281	---
1144	2	2.000	.391	.687	2.781	.625	1.000	2171	8	1.343	.406	2.000	2.125	.437	.656	.750
1145	4	.828	.391	.625	1.375	.437	.656	2173	1	1.343	.391	.687	2.125	.625	1.000	---
1162	2	8.687	.468	.687	9.625	.796	1.281	2174	7	1.343	.391	1.750	2.062	.625	1.000	1.187
1173	2	1.343	.391	.687	2.125	.625	1.000	2175	1	1.625	.468	.687	2.562	.796	1.281	---
1175	2	1.625	.468	.687	2.562	.796	1.281	2176	7	1.625	.468	2.125	2.562	.796	1.281	1.562
1179	4	.562	.468	.625	1.281	.796	1.281	2179	3	.562	.391	.625	1.281	.796	1.281	---
1185	2	3.312	.391	.687	4.093	.625	1.032	2182	9	1.343	.406	2.750	2.125	.437	.656	.750
1186	2	4.000	.468	.687	4.937	.796	1.281	2185	1	3.312	.391	.687	4.093	.625	1.000	---
1189	2	3.312	.391	.687	4.093	.437	.656	2186	1	4.000	.468	.687	4.937	.796	1.281	---
1191	2	5.218	.391	.687	6.000	.437	.656	2187	8	1.343	.391	2.937	2.062	.625	1.000	1.187
1194	2	7.156	.391	.687	7.937	.437	.656	2188	9	1.343	.391	4.125	2.062	.625	1.000	1.187
1195	2	5.156	.391	.687	5.937	.625	1.000	2189	1	3.312	.391	.687	4.093	.437	.656	---
1198	2	7.125	.391	.687	7.906	.625	1.000	2190	8	1.625	.468	3.687	2.562	.796	1.281	1.562
1199	2	6.343	.468	.687	7.281	.796	1.281	2191	1	5.218	.391	.687	6.000	.437	.656	---
2101	3	.281	.391	.625	.812	.437	.656	2192	9	1.625	.468	5.250	2.562	.796	1.281	1.562
2103	5	---	.391	.625	.843	.656	1.000	2194	1	7.156	.391	.687	7.937	.437	.656	---
2104	5	---	.468	.625	.890	.750	1.281	2195	1	5.156	.391	.687	5.937	.625	1.000	---
2109	1	1.156	.391	.687	1.937	.437	.656	2198	1	7.125	.391	.687	7.906	.625	1.000	---
								2199	1	6.343	.468	.687	7.281	.796	1.281	---

KEYSTONE ALUMINUM BATTERY HOLDERS



A standard line of battery holders available for immediate shipment from stock. Low cost, lightweight and sturdily constructed of quality materials. Good electrical contact, low leakage current and snap-fit clips are the outstanding features.



MODIFICATIONS: We welcome the opportunity to quote on variations of standard items. Use our engineering service for your special custom-built holders.

DIMENSIONAL DRAWINGS ON THE FOLLOWING PAGE

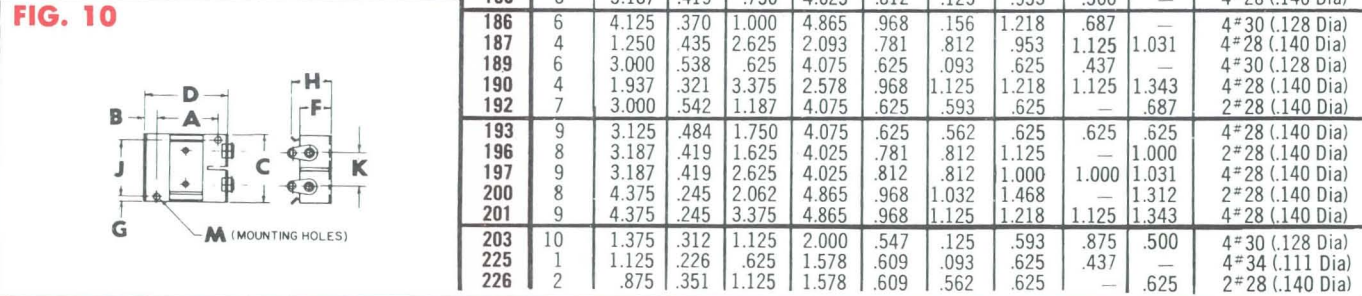
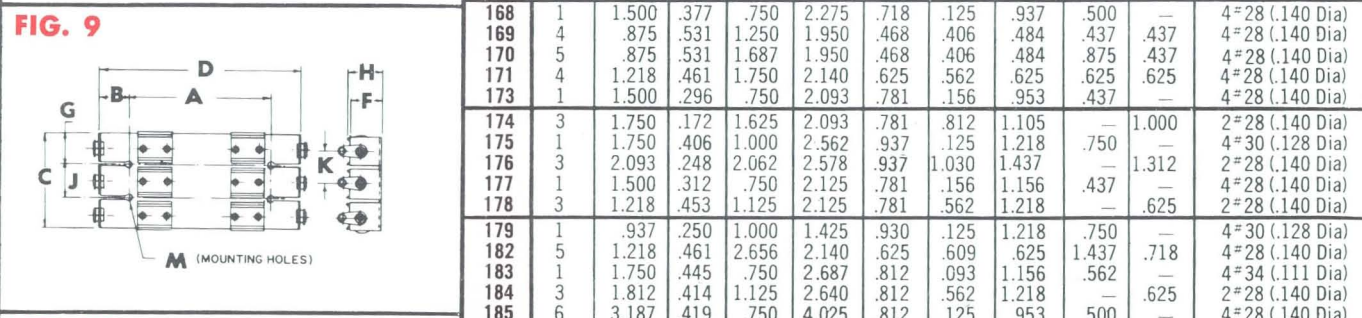
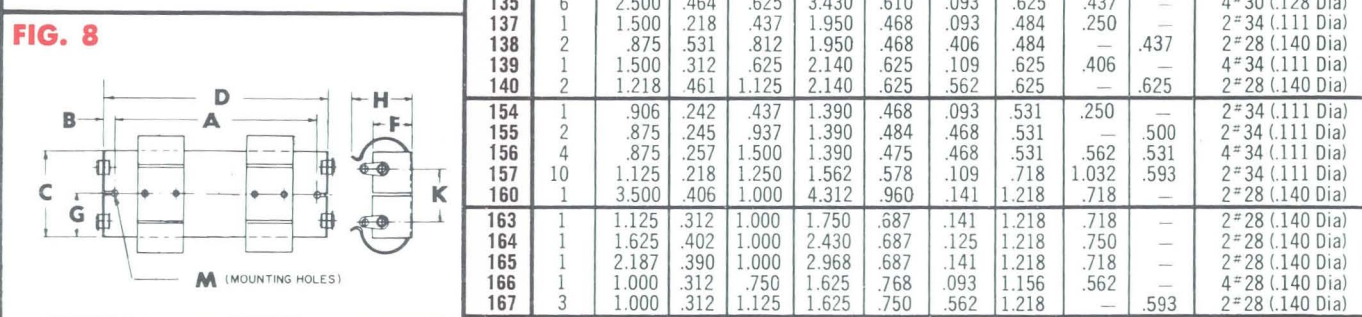
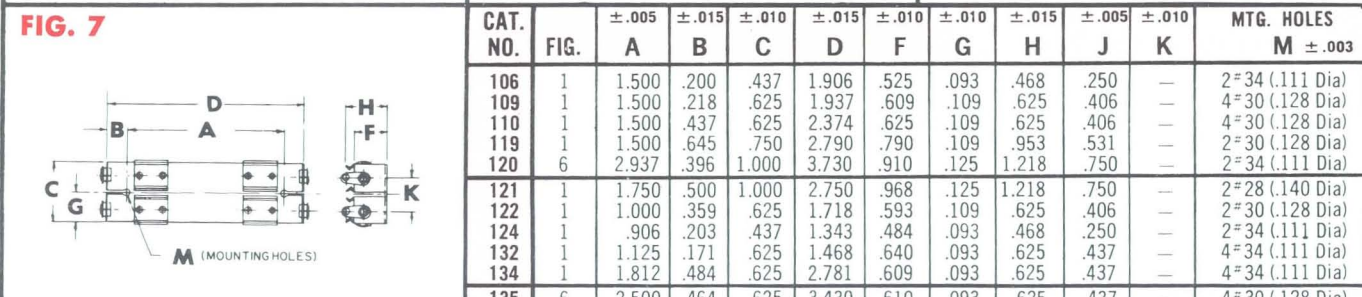
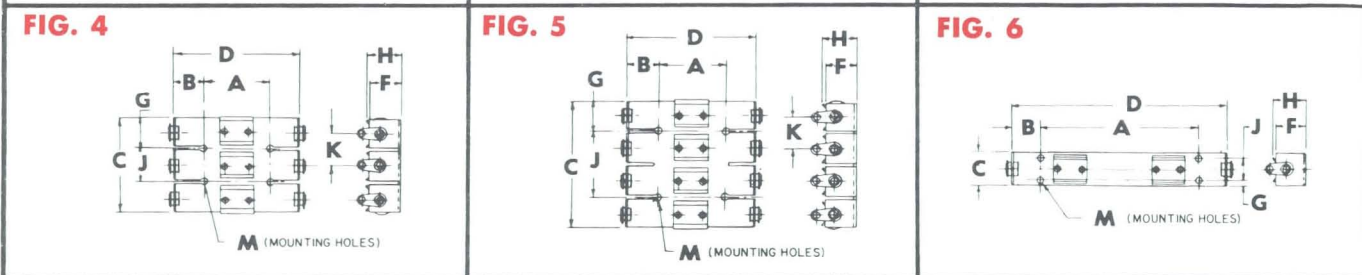
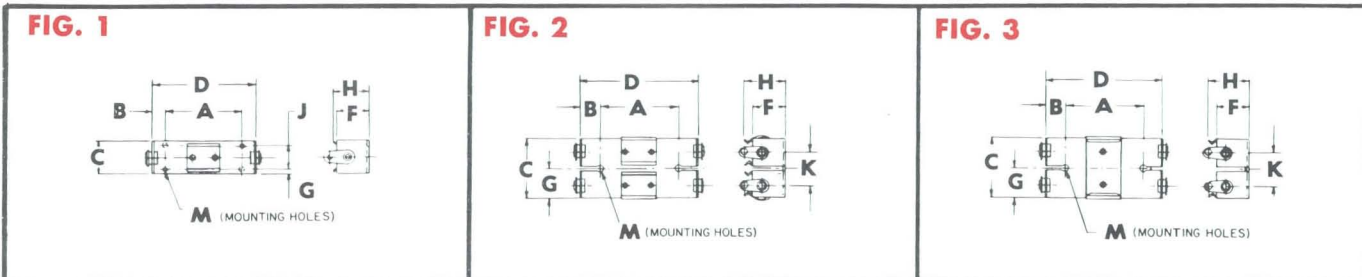
KEYSTONE CAT. NO.	HOLDS NO. OF CELLS	FIG. NO.	ALL BATTERIES LISTED WITHIN BOXES ARE IN THE SAME SIZE GROUP			
			BATTERY CROSS REFERENCE			
			BURGESS	EVEREADY	RCA	NEDA
MINIATURE CELL HOLDERS						
137	1	1	7	912	VS074	24
138	2	2				
169	3	3				
170	4	4				
PENCELL HOLDERS						
139	1	1	CD6	E9, E12	VS034A	15
140	2	2	9R, Z	E91	VS144	15A
171	3	3	HG9	E133	VS149	1103
182	4	4	HG12R	333	VS313A	1107
189	2	5	H133	E502	VS334	
191	3	6	HG502R	515		
192	4	7	920	915, 1015		
193	6	8	930	N46		
"C" CELL HOLDERS						
173	1	1	1	226	VS035A	14
174	2	2	P6	E233	VS300	1300
187	3	3	120	635	VS335	1600
185	2	5	130	935	VS400	
195	3	6	H233	1035		
196	4	7	302599	E93		
197	6	8				
"D" CELL HOLDERS						
175	1	1	2	E42	VS036A	13
176	2	2	2R	N56	VS036	
190	3	3	CD7	E95	VS336	
186	2	5	210	D99		
199	3	6	230	A100		
200	4	7		950		
201	6	8		1050		
205	6	12				
1 1/2 VOLT CELL HOLDERS						
154	1	1	N	E340	VS073	910
155	2	2		904		
156	3	3				
160	1	1	21R	964	VS236	20
179	1	1		E94		927
4 1/2 VOLT CELL HOLDERS						
139	1	1		333	VS1149	1306
9 VOLT CELL HOLDERS						
139A	1	1		206	VS327	1611
203P	1	14	2U6	216	VS323	1604
173P	1	1	P6M	226	VS300A	1600
15 VOLT CELL HOLDERS						
163	1	11	K10	417		224
161	1	11	U10	411	VS083	208
166	1	9				
167	2	10				
225	1	1	Y10	504		220
226	2	2				
22 1/2 VOLT CELL HOLDERS						
164	1	11	K15			225
168	1	11		420		
177	1	9	U15	412	VS084	215
178	2	10				
139A	1	1	Y15	505		221
140A	2	2				
171A	3	3				
182A	4	4				
30 VOLT CELL HOLDERS						
157	1	14	Y20	506		223
165	1	11	K20	430		226
183	1	9	U20	413	VS085	210
184	2	10				
134	1	1	Y20S	507		222

KEYSTONE ALUMINUM BATTERY HOLDERS

SEE NEXT PAGE FOR NUMERICAL LISTING OF MERCURY CELLS



MATERIAL INSULATING WASHERS—RESIN IMPREGNATED FIBRE **FRAME AND CLIPS**—ALUMINUM PER QQ-A-362
SPECIFICATIONS **TERMINAL LUG**—COPPER, CADMIUM PLATED PER QQ-P-416 **CONTACT EYELETS**—BRASS N.P.



KEYSTONE MERCURY BATTERY HOLDERS

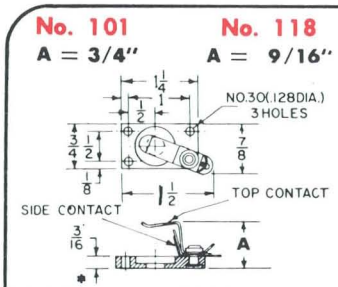
MERCURY BATTERY CROSS REFERENCE



SEE PAGES 3 AND 5 FOR MATERIAL SPECIFICATIONS AND DIMENSIONAL DRAWINGS

MERCURY BATTERY CROSS REFERENCE			ALUMINUM AND PHENOLIC BASE HOLDERS		ALL STEEL HOLDERS ONE INSULATED CONTACT		ALL STEEL HOLDERS ALL CONTACTS INSULATED	
BURGESS	EVEREADY	MALLORY	CAT. NO.	FIG. NO.	CAT. NO.	FIG. NO.	CAT. NO.	FIG. NO.
Hg-1R	E1	RM1R	101*	13	1101	15	2101	16
Hg-3R	E3	RM3R	103*	13	1103	15	2103	16
Hg-4R	E4	RM4R	104*	13	1104	15	2104	16
Hg-9	E9	ZM9	139	1	1139	19	2139	20
Hg-12R	E12	RM12R	139	1	1139	19	2139	20
Hg-42R	E42	RM42	175	1	1175	19	2175	20
H113R	E113	TR113			1113	15	2113	16
H114R	E114	TR114			1114	15	2114	16
H115R	E115	TR115	132	1	1132	15	2132	16
H126	E126	TR126	139A	1				
H132R	E132	TR132	132	1	1132	15	2132	16
H133	E133	TR133	139	1	1139	19	2139	20
H134R	E134	TR134	134	1	1134	19	2134	20
H135R	E135	TR135	135	5	1135	19	2135	20
H136R	E136	TR136	189	5	1189	19	2189	20
H137R	E137	TR137			1125	19	2125	20
H145	E145	TR145			1145	15	2145	16
H152R	E152	TR152	124**	1				
H153R	E153	TR153	106**	1				
H162R	E162	TR162			1113	15	2113	16
H163	E163	TR163	132	1	1132	15	2132	16
H164	E164	TR164	109	1	1109	19	2109	20
H165	E165	TR165	110	1	1110	19	2110	20
H169	E169	TR169	189	5	1189	19	2189	20
	E175	TR175	124**	1				
H177	E177	TR176			1132	15	2132	16
H233	E233	TR177			1142	19	2142	20
H234	E234	TR233	173	1	1173	19	2173	20
		TR234			1144	19	2144	20
		TR235			1133	19	2133	20
Hg-400R	E400	TR236	185	5	1185	5	2185	5
Hg-401	E401	RM400	111*	18				
		RM401	124**	1				
		RM411	166**	9				
		RM412	177**	9				
Hg-450R	E450	RM413	183**	9				
Hg-502R	E502	RM450	112*	17				
Hg-601R	E601	RM502	139	1	1139	19	2139	20
Hg-625R	E625	RM601			1116	15	2116	20
		RM625	117*	17				
Hg-630	E630	RM630	126*	18				
Hg-640	E640	RM640	118*	13				
Hg-675	E675	RM675	127*	18				
302351-M	E302351	302351	119	1	1119	19	2119	20
302435	E302435	302435	122**	1				
302437	E302437	302437	139	1	1139	19	2139	20
302478-M	E302478	302478	120	5	1120	19	2120	20
		302599	173	1	1173	19	2173	20
302642-M	E302642	302642	121	1	1121	19	2121	20

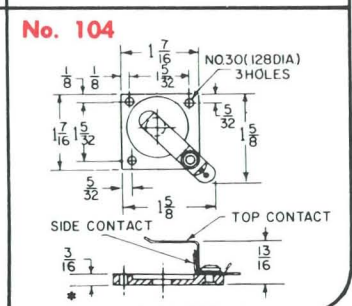
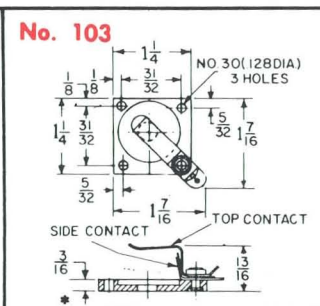
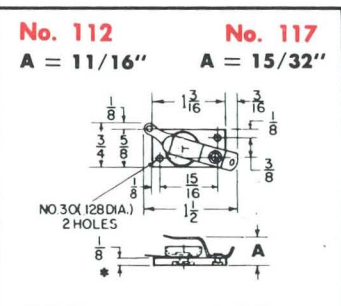
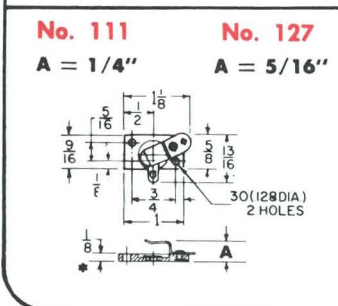
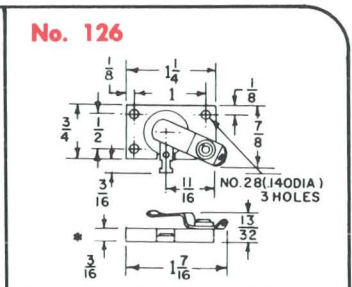
* PHENOLIC BASE HOLDERS **AVAILABLE ONLY IN ALUMINUM



PHENOLIC BASE HOLDERS

MATERIAL SPECIFICATIONS

- * PHENOLIC —Per Mil-P-3115C Type PBE.
- PHOSPHOR BRONZE—Per Mil-B-892, spring temper Grade A
- CADMIUM PLATE—Per QQ-P-416



KEYSTONE BATTERY CLIPS AND HOLDERS



SPACE SAVER BATTERY CLIPS

Available with insulated contact or dimple. Positive contact grips battery securely. They will accommodate the "AA"—"C"—"D"—Mercury and NI-CAD batteries.

- CORROSION RESISTANT NICKEL PLATED
- STAINLESS STEEL CONTACTS

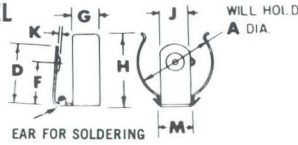
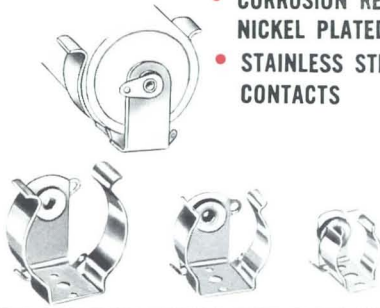
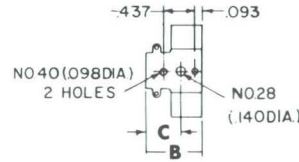


FIG. 1 DIMPLE CONTACT

DIMPLE CONTACT

86
89
99



INSULATED CONTACT

87
88
100

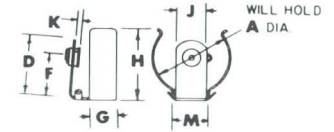
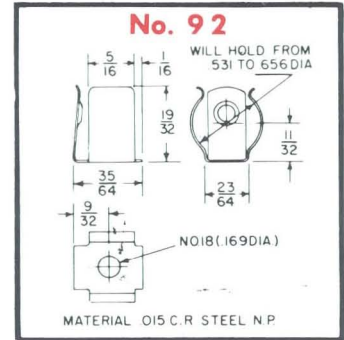


FIG. 2 INSULATED CONTACT

MATERIAL SPECIFICATIONS

CLIPS—Carbon Steel, SAE 1065 per Mil-S-17919#4, Heated Treated to Spring Temper, Nickel Plate Finish.
CONTACT EYELETS—Stainless Steel per Mil-S-18170 Comp 304.
INSULATING WASHERS—Resin Impregnated Fibre.
TERMINAL LUGS—Copper Per QQ-C-576A, Cad. Plated per QQ-P-416

CAT. NO.	FIG.	A DIA. MIN.-MAX.	±.015 B	±.010 C	±.015 D	±.015 F	±.005 G	±.020 H	±.005 J	±.005 K	±.015 M	STEEL THICKNESS	FOR CELLS
86	1	.875 to 1.125	.703	.391	.812	.593	.375	.937	.500	.050	.605	.020	C
87	2	.875 to 1.125	.703	.391	.812	.593	.375	.937	.500	.070	.605	.020	C
88	2	1.187 to 1.350	.775	.463	1.075	.750	.437	1.187	.500	.070	.609	.020	D
89	1	1.187 to 1.350	.775	.463	1.075	.750	.437	1.187	.500	.050	.609	.020	D
99	1	.531 to .650	.703	.391	.609	.375	.375	.609	.312	.050	.353	.015	AA
100	2	.531 to .650	.703	.391	.609	.375	.375	.609	.312	.070	.353	.015	AA



BATTERY AND COMPONENT HOLDERS

A complete line of clips suitable for secure mounting of round or square battery cells or electronic components.

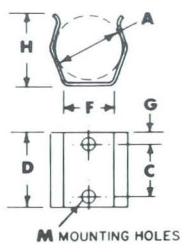
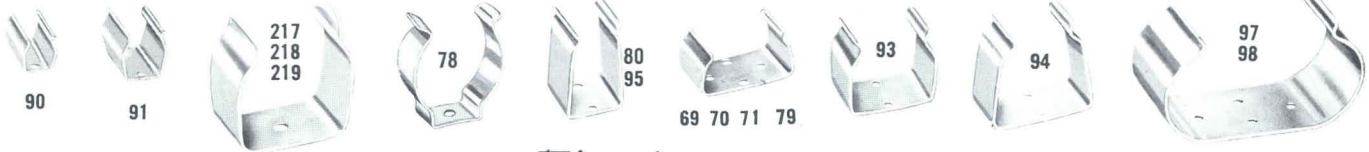


FIG. 1

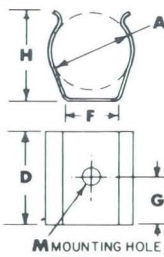


FIG. 2

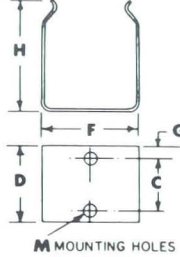


FIG. 3

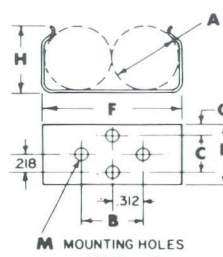


FIG. 4

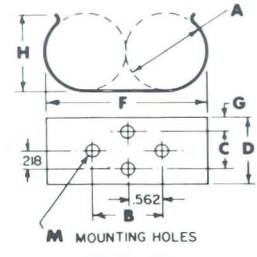


FIG. 5

CAT. NO.	FIG.	A MIN.-MAX. DIA. OR SIZE	±.005 B	±.005 C	±.005 D	±.015 F	±.010 G	±.015 H	±.003 M MTG. HOLES	MATERIAL	FOR * CELLS
69	4	.562 (2)	.625	.437	.625	1.125	.093	.562	4#40 (.094)	.015 Steel	(2) AA
70	4	.656 (2)	.625	.437	.625	1.343	.093	.687	4#40 (.098)	.025 Alum.	(2) RM12
71	3	.593 x 1.031	—	.437	.625	1.031	.093	.687	4#40 (.098)	.015 Steel	2U6
78	2	1.187 to 1.350	—	—	.500	.562	.250	1.218	1#29 (.136)	.020 Steel	D
79	4	.650x1.280	.625	.437	.625	1.050	.093	.765	2#40 (.098)	.015 Steel	T 146 X
80	3	.650x1.280	—	.437	.625	.675	.093	1.187	2#40 (.098)	.020 Steel	T 146 X
90	1	.375 to .468	—	.437	.625	.312	.093	.453	2#40 (.098)	.016 Alum.	AAA
91	1	.531 to .656	—	.437	.625	.406	.093	.593	2#40 (.098)	.020 Alum.	AA
93	1	.875 to 1.1250	—	.437	.625	.937	.093	.921	2#40 (.098)	.025 Alum.	C
94	3	1.187 to 1.375	—	.437	.625	1.250	.093	1.218	2#40 (.098)	.032 Alum.	D
95	3	.625 x 1.000	—	.437	.625	.656	.093	1.125	2#40 (.098)	.025 Alum.	U-15
97	5	1.031 (2)	—	.437	.625	2.062	.093	1.125	2#40 (.098)	.025 Alum.	(2) C
98	5	1.312 (2)	1.125	.437	1.000	2.656	.281	1.437	4#40 (.098)	.032 Alum.	(2) D
217	2	1.375 to 1.500	—	—	.812	1.218	.406	1.468	#22 (.157)	.025 Steel	NI-CAD
218	2	1.437 to 1.687	—	—	.812	1.375	.406	1.531	#22 (.157)	.025 Steel	NI-CAD
219	2	2.000 to 2.500	—	—	.812	1.687	.406	2.156	#22 (.157)	.025 Steel	NI-CAD

* These clips will hold batteries or components of similar dimensions

MATERIAL SPECIFICATIONS

ALUMINUM CLIPS

Per QQ-A-362, No Finish.

STEEL CLIPS

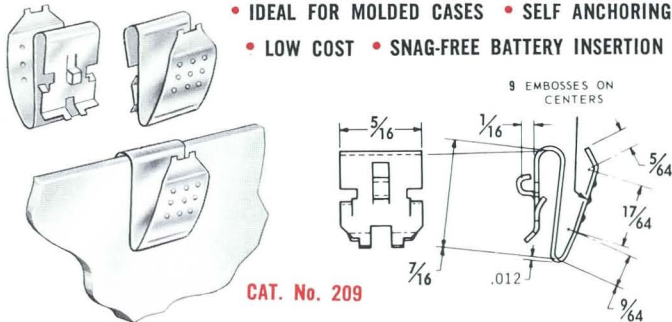
Carbon Steel, SAE 1065 per Mil-S-17919#4, Heat Treated to Spring Temper, Nickel Plate Finish.

BATTERY HOLDER CLIPS AND ACCESSORIES

PENCILL SNAP-ON BATTERY HOLDER CLIPS

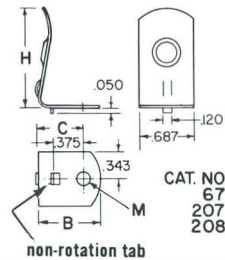
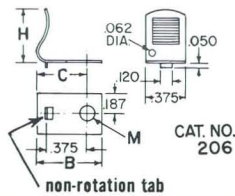
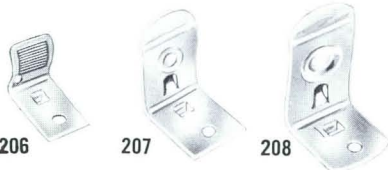
Clips over panels from .060 to .070 thick and is anchored by sharp barbs, eliminating the need for special grooves, slots or holes. Spring tension of contact leg provides excellent contact and takes up any variation in battery lengths. External solder ear will hold wire for easy soldering. Made of spring tempered steel, nickel plated.

- IDEAL FOR MOLDED CASES • SELF ANCHORING
- LOW COST • SNAG-FREE BATTERY INSERTION



CAT. No. 209

ECONOMY CLIPS for "AA" Pencells — "C" and "D" Cells



A low cost clip used with non-metallic bases.

Features: Single eyelet mount—non-rotating tab. Recessed Contact holds Battery Contact firmly. MATERIAL: Spring Temper Steel and Nickel Plated.

CAT. NO.	B	C	H	M	For Cells
206	.609	.468	.500	.128	AA
207	.687	.547	.875	.128	C
208	.765	.562	1.290	.128	D
67	.765	.562	1.290	.156	D

67 does not have Non-Rotation Tab

INSULATED POLARIZING WASHERS

Insulated Polarizing Washers eliminate the danger of damage and short circuit to expensive transistor equipment. The washers hold securely when snapped over the eyelets used on our standardized battery holders. MATERIAL: Precision molded of plastic.



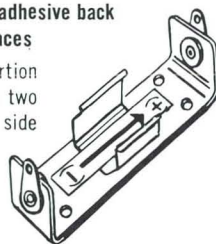
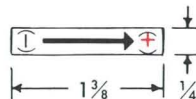
Cat. No. 59 (Red) Cat. No. 60 (Black)

POLARITY INDICATING LABELS

- No gluing or wetting needed
- Economical
- Pressure sensitive adhesive back
- Adheres to all surfaces

Recommended where proper polarity of battery insertion or circuit polarity is to be shown. These labels are two color, (+) positive side red, arrow and (−) negative side is blue.

Cat. No. 58



CONTACT EYELETS

Used as contacts on battery holders. Available in brass or stainless steel.

BRASS EYELET
NICKEL PLATE
Fed. Spec. QQ626
Comp. 1
CAT. No. 4021

STAINLESS STEEL
Fed. Spec. QQS763
Class 305
CAT. No. 4022



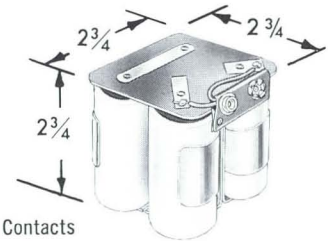
REPLACE-A-PAK BATTERY HOLDER

- HOLDS 4 "D" CELLS IN A MINIMUM OF SPACE
- WIRED IN SERIES TO PROVIDE 6 VOLTS
- REPLACES EXPENSIVE LANTERN PACKS
- AVAILABLE WITH BRACKET OR SNAP CONTACTS.



CAT. No. 215—Brass Leg Contacts

The easily obtained, inexpensive "D" cells replace the more costly and hard to obtain Battery Pack. Our REPLACE-A-PAK is ideal for flashlites and lanterns. Positive contact assured with spring brass or snap contacts. Lightweight and compact to fit where space is limited.



CAT. No. 216—Snap Contacts

ECONOMY BATTERY HOLDERS for "AA" Pencells—"C" & "D" Cells



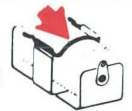
Sturdily constructed with our economy clips mounted to a 1/8" thick masonite base. Battery contact is held in the recess of the clip and center clip is not required in most instances.

CAT. NO.	A	B	C	D	J	H	Use for These Batteries or Equivalent EVEREADY
212	1.062	.468	.625	2.125	.375	.500	AA, E9, E12, 505, 915
213	1.062	.547	1.000	2.125	.625	.875	"C", 935
214	1.203	.562	1.000	2.406	.625	1.290	"D", 950

Multiple units supplied on special order either side by side or in-line.

BATTERY RETAINER CLIPS

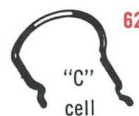
- Prevents battery loosening in battery holder
- Slips into the ears of the clip of the battery holder
- Made of hi-carbon steel, spring tempered and nickel plated



AA cell

Retainer for Pencells or Mercury cells with diameters of 17/32" to 9/16". Used with Keystone clips #91, 92, 95, 99 and 100.

CAT. No. 61



"C" cell

Retainer for "C" cells or similar size batteries to 1 1/32" diameter. Used with Keystone clips #86, 87 and 93.

CAT. No. 62



"D" cell

Retainer for "D" cells or similar size batteries to 1 1/32" diameter. Used with Keystone clips #88, 89 or 94.

CAT. No. 63

Retainer for Mercury cells with diameter of .650" that fit Keystone clips #92, 99 or 100.

CAT. No. 66

BATTERY HOLDER CLIPS AND ACCESSORIES



BATTERY SNAP-ONS (Miniature and Standard)

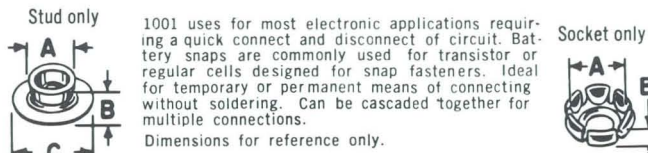


FIG. 1

FIG. 2

1001 uses for most electronic applications requiring a quick connect and disconnect of circuit. Battery snaps are commonly used for transistor or regular cells designed for snap fasteners. Ideal for temporary or permanent means of connecting without soldering. Can be cascaded together for multiple connections.
Dimensions for reference only.

on Phenolic Washer

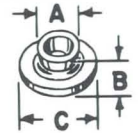


FIG. 5

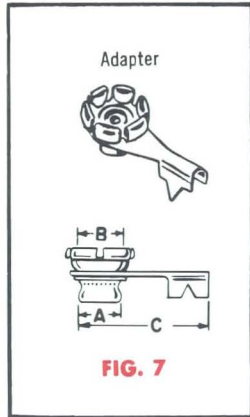


FIG. 7

on Phenolic Washer

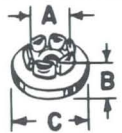


FIG. 6

Stud w/Solder Lug

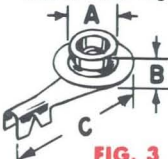


FIG. 3

Socket w/Solder Lug

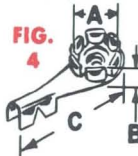
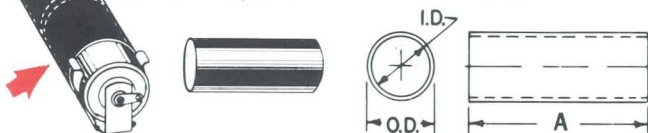


FIG. 4

CAT. NO.	Fig.	A	B	C	Description
261	1	.225	.135	.312	Jr. Stud only — .093 hole
262	1	.283	.143	.490	Sr. Stud only — .125 hole
269	2	.205	.132	—	Jr. Socket only — .093 hole
270	2	.265	.156	—	Sr. Socket only — .125 hole
263	3	.225	.200	.790	Jr. Stud w/Solder Lug
264	3	.283	.205	.895	Sr. Stud w/Solder Lug
271	4	.205	.200	.790	Jr. Socket w/Solder Lug
272	4	.265	.210	.835	Sr. Socket w/Solder Lug
265	5	.225	.205	.500	Jr. Stud on Phenolic Washer
266	6	.205	.205	.500	Jr. Socket on Phenolic Washer
273	5	.283	.200	.500	Sr. Stud on Phenolic Washer
274	6	.265	.225	.500	Sr. Socket on Phenolic Washer
267	7	.225	.205	.790	261 Eyeletted to 269 Adapter
268	7	.283	.265	.895	262 Eyeletted to 270 Adapter
275	7	.225	.265	.835	261 Eyeletted to 270 Adapter
276	7	.283	.205	.895	262 Eyeletted to 269 Adapter

BATTERY CELL TUBES

These are used with our 1100 and 2100 series of Battery Holders. Tubes hold 2, 3 or 4 batteries in line when end clips are used. Tube is black wound paper, heavily wax impregnated to retain stiffness and provides accurate fit for the batteries.



CAT. NO.	Length "A"	Inside Diam. "I.D."	Outside Diam. "O.D."	Holds No. Cells	Battery Type
4023	2.750	.670	.730	2	AA
4024	4.687	.670	.730	3	AA
4025	6.625	.670	.730	4	AA
4026	2.500	1.050	1.100	2	C
4027	4.437	1.050	1.100	3	C
4028	6.375	1.050	1.100	4	C
4029	3.250	1.345	1.395	2	D
4030	5.562	1.345	1.395	3	D
4031	7.750	1.345	1.395	4	D

BATTERY STRAPS

Made for batteries requiring a snap-on connection. Contacts are mounted securely to fibre and wire leads attached.



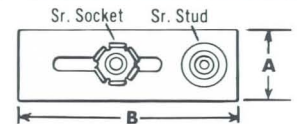
FIG. 1

FIG. 2

Cat. No.	Fig. No.	A	EVEREADY	BURGESS	R.C.A.
72	1	1/2"	216	2U6	VS-312
			246	2NG	305
			416	UX-5	318
73	2	3/4"	266	M-6	
			495	N60X	VS-316
74	2	15/16"	479	P60	216
			437	XX50	217
			477	P45	218
			276	D6	VS-306
76	2	1 1/2"	455	XX-30	VS-055
			457	K45	082
			467	XX-45	016
77	2	2 1/2"	490	N-60	VS-090

UNIVERSAL BATTERY STRAPS

Designed for Servicemen, Lab or Production. Contacts staked securely to phenolic insulator 1/16" thick. One contact is stationary, the other contact can be shifted back or forth in the slot to desired spacing.



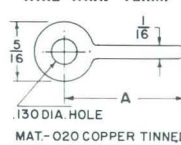
CAT. NO.	A WIDTH	B Length	FOR BATTERIES WITH SPACING
222	5/8"	2"	3/4" to 1 1/2"
223	5/8"	3 1/4"	2" to 3"

No Leads Attached

CONTACT ASSEMBLY TERMINALS

USED ON BATTERY HOLDERS

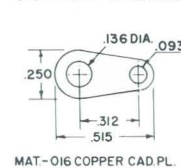
PRINTED CIRCUIT or WIRE WRAP TERM.



Can be substituted for the standard lug used on our Holders.

CAT. No.	A
4000	.500
4001	.562
4002	.750
4003	1.000

STANDARD TERMINALS

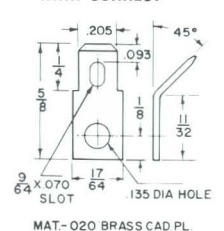


Universal terminal proven popular in electronic assemblies and Battery Holders.

Per QQ-C-502A

CAT. No. 4004

KWIK CONNECT



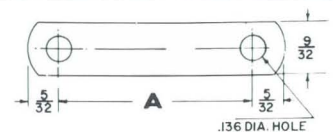
For solderless connection applications. Will accept .205 female disconnect.

CAT. No. 4005

CONNECTOR STRAPS (JUMPERS)

Various lengths suitable for many applications in electronic assemblies.

MAT-.015 BRASS TINNED



CAT. No.	A
4006	.437
4007	.625
4008	.687
4009	.718
4010	.750

CAT. No.	A
4011	.781
4012	.812
4013	.875
4014	1.000
4015	1.187

CAT. No.	A
4016	1.312
4017	1.343
4018	1.500
4019	1.562
4020	1.625

STANDARDIZED TERMINAL BOARDS

STANDARDIZED TURRET TERMINAL BOARDS

Cut your production cost by eliminating the tooling and setup charge usually applied to nonstandardized boards. Terminals are securely riveted and hot tinned for easy soldering.

TERMINALS: Your choice of most popular types.
Made of Brass: QQ-626, comp. 22, 1/2 hard.
Hot Dip Solder finish: Mil-F-14072 Type 221.

Material: Your choice of either PBE or GEE Phenolic.

PBE: Paper base electrical, Mil-P-3115C, Temp. 250° F max. Type XXXP.

GEE: Glass Epoxy, Mil-P-18177, Temp. 300° F max. Type G-10.

Five sections **SCORED** for easy separation M'tg. holes in each section.

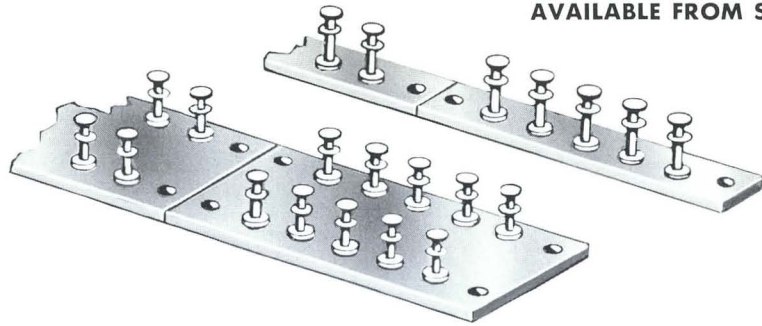
These boards **CAN BE MODIFIED** with terminals staked in all holes, scoring eliminated. Marking can be added.

ALL TERMINAL DRAWINGS ARE ACTUAL SIZE.

Boards are available without terminals staked.
Prices on request.

SCORED TURRET TERMINAL BOARDS

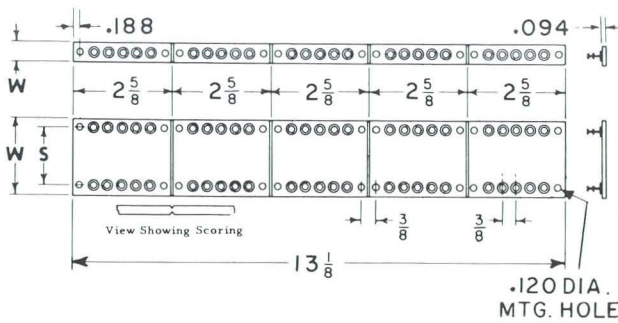
AVAILABLE FROM STOCK



Brackets and mounting Hardware listed on pages 30, 32 and 33.

3/8" SPACING AND SCORED

3/32" THICK PHENOLIC — Choice of 4 Types of Terminals
Overall Length of Board 13 1/8", FIVE 2 5/8" Sections.

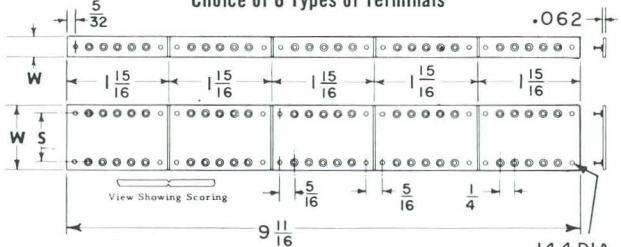


Five sections **SCORED** for easy separation. M'tg. holes in each section.

Turret Terminal Boards without scoring listed on Page 11.

MINIATURE TURRET TERMINAL BOARDS

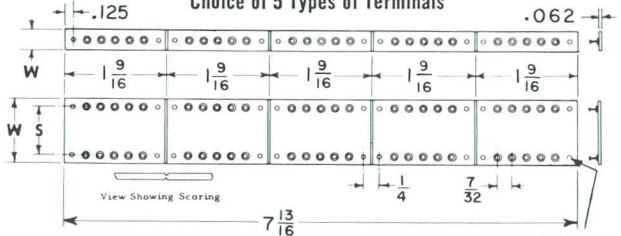
1/4" SPACING AND SCORED — 1/16" THICK PHENOLIC
Overall Length of Board Is 9 11/16", Five 1 15/16" Sections
Choice of 6 Types of Terminals



Five sections **SCORED** for easy separation.
M'tg. holes in each section.

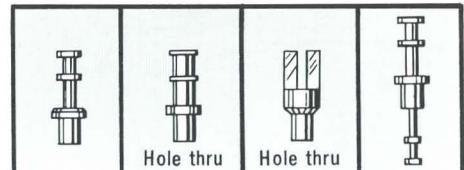
MINIATURE TURRET TERMINAL BOARDS

7/32" SPACING AND SCORED — 1/16" THICK PHENOLIC
Overall Length of Board 7 13/16", Five 1 9/16" Sections
Choice of 5 Types of Terminals



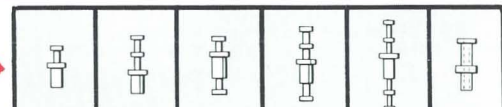
Five sections **SCORED** for easy separation.
M'tg. holes in each section.

ALL TERMINAL DRAWINGS
ARE ACTUAL SIZE
CHOICE OF TERMINALS



W	S	No. of Terms.	Material	With 1503 Term. Cat. No.	With 1509 Term. Cat. No.	With 1507 Term. Cat. No.	With 1545 Term. Cat. No.
1/2	Single Row	25	PBE	15031	15091	15071	15041
			GEE	15231	15291	15271	15241
1 1/2	1	50	PBE	15032	15092	15072	15042
			GEE	15232	15292	15272	15242
1 1/2	1 3/16	50	PBE	15036	15096	15076	15046
			GEE	15236	15296	15276	15246
2	1 1/2	50	PBE	15033	15093	15073	15043
			GEE	15233	15293	15273	15243
2 1/2	2	50	PBE	15034	15094	15074	15044
			GEE	15234	15294	15274	15244
3	2 1/2	50	PBE	15035	15095	15075	15045
			GEE	15235	15295	15275	15245

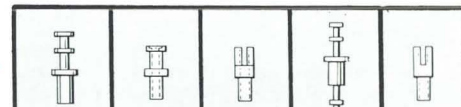
ALL TERMINAL DRAWINGS
ARE ACTUAL SIZE
CHOICE OF TERMINALS



W	S	No. of Terms.	Material	With 1572 Term. Cat. No.	With 1573 Term. Cat. No.	With 1574 Term. Cat. No.	With 1575 Term. Cat. No.	With 1583 Term. Cat. No.	With 1559 Term. Cat. No.
5/16	Single Row	25	PBE	15047	15057	15067	15077	15087	15097
			GEE	15247	15257	15267	15277	15287	15297
7/8	9/16	50	PBE	15048	15058	15068	15078	15088	15098
			GEE	15248	15258	15268	15278	15288	15298
1 1/8	13/16	50	PBE	15049	15059	15069	15079	15089	15099
			GEE	15249	15259	15269	15279	15289	15299

Turret Terminal Boards without scoring listed on Page 11.

ALL TERMINAL DRAWINGS
ARE ACTUAL SIZE
CHOICE OF TERMINALS



W	S	No. of Terms.	Material	With 1502 Term. Cat. No.	With 1562 Term. Cat. No.	With 1526 Term. Cat. No.	With 1512 Term. Cat. No.	With 1533 Term. Cat. No.
5/16	Single Row	25	PBE	15021	15023	15025	15063	15053
			GEE	15221	15223	15225	15263	15253
3/4	1/2	50	PBE	15028	15029	15026	15064	15054
			GEE	15228	15229	15226	15264	15254
1	3/4	50	PBE	15022	15024	15030	15065	15056
			GEE	15222	15224	15230	15265	15256

Turret Terminal Boards without scoring listed on Page 12.

READI-MADE TERMINAL BOARDS



- SAVE TOOLING
- COMPLETE RANGE OF SIZES
- ECONOMICAL
- DELIVERY FROM STOCK

READI-MADE TERMINAL BOARDS are low cost and meet commercial and military specifications. They are produced in large quantities, making it possible to eliminate tooling and setup charges usually applied to non-standardized boards.

TERMINALS: Made of BRASS, QQ-B-626, COMP. 22, 1/2 HARD. Terminals are staked in all holes except end mounting holes.

PLATING: HOT DIP SOLDER finish, MIL-F-14072. Recommended for longer shelf life and better solderability. Other platings can be furnished.

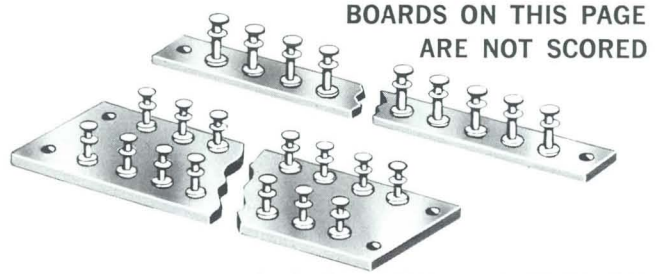
MATERIAL: Your choice of either PBE or GEE phenolic.

PBE: Paper base electrical, MIL-P-3115C, Type XXXP natural, Temp. 250 deg. F max.

GEE: Glass epoxy, MIL-P-18177, Type G-10, Temp. 300 deg. F max.

MODIFICATIONS: Other materials and terminals of your choice supplied. Marking may be added.

Boards are available without terminals staked.
Prices on request.



BOARDS ON THIS PAGE ARE NOT SCORED

Brackets and mounting Hardware listed on pages 30, 32 and 33.



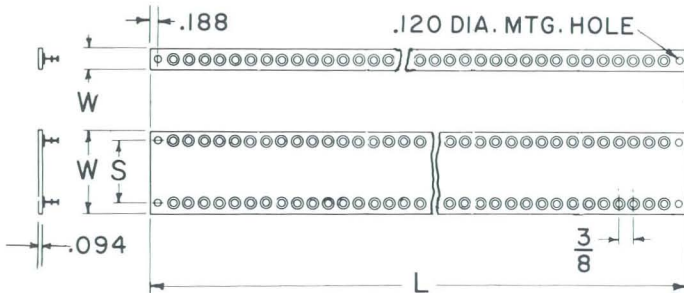
TURRET TERMINAL BOARDS

3/8" SPACING

Choice of sizes

TERMINAL: 1503-3 HTD[®] used on these boards. Height above board 23/64". (MIL-T-55155 — SE12-X-C-08 style SE12-8).

MATERIAL: Choice of PBE or GEE 3/32" thick.



Terminals are staked in all holes except end mounting holes.

SEE BRACKET PAGE FOR SUITABLE MOUNTING HARDWARE.

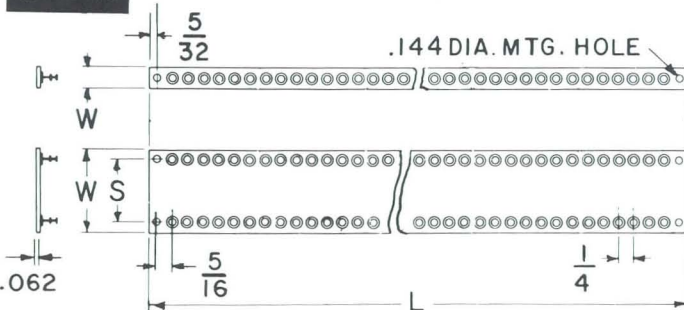
W	S	L	No. of Terms. Each Side	Material PBE Cat. No.	Material GEE Cat. No.
1/2	Single Row	2 5/8	5	15101	15301
		5 1/4	12	15102	15302
		7 7/8	19	15103	15303
		10 1/2	26	15104	15304
		13 1/8	33	15105	15305
13/16	3/4	2 5/8	5	15106	15306
		5 1/4	12	15107	15307
		7 7/8	19	15108	15308
		10 1/2	26	15109	15309
		13 1/8	33	15110	15310
1 1/2	1	2 5/8	5	15111	15311
		5 1/4	12	15112	15312
		7 7/8	19	15113	15313
		10 1/2	26	15114	15314
		13 1/8	33	15115	15315
2	1 1/2	2 5/8	5	15116	15316
		5 1/4	12	15117	15317
		7 7/8	19	15118	15318
		10 1/2	26	15119	15319
		13 1/8	33	15120	15320
2 1/2	2	2 5/8	5	15121	15321
		5 1/4	12	15122	15322
		7 7/8	19	15123	15323
		10 1/2	26	15124	15324
		13 1/8	33	15125	15325
3	2 1/2	2 5/8	5	15126	15326
		5 1/4	12	15127	15327
		7 7/8	19	15128	15328
		10 1/2	26	15129	15329
		13 1/8	33	15130	15330

MINIATURE TURRET TERMINAL BOARDS

1/4" SPACING Choice of sizes

TERMINAL: 1573-2 HTD[®] used on these boards. Height above board 3/16".

MATERIAL: Choice of PBE or GEE 1/16" thick.



[®]HTD HOT DIP SOLDER finish, MIL-F-14072.

W	S	L	No. of Terms. Each Side	Material PBE Cat. No.	Material GEE Cat. No.
5/16	Single Row	1 11/16	5	15431	15531
		3 11/16	12	15432	15532
		5 1/16	19	15433	15533
		7 3/16	26	15434	15534
		8 13/16	33	15435	15535
7/8	9/16	1 11/16	5	15436	15536
		3 11/16	12	15437	15537
		5 1/16	19	15438	15538
		7 3/16	26	15439	15539
		8 13/16	33	15440	15540
1 1/8	13/16	1 11/16	5	15441	15541
		3 11/16	12	15442	15542
		5 1/16	19	15443	15543
		7 3/16	26	15444	15544
		8 13/16	33	15445	15545

READI-MADE TERMINAL BOARDS

MINIATURE TURRET TERMINAL BOARDS

7/32" SPACING

These GENERAL USE TERMINAL BOARDS are made of certified materials to JAN and MIL specs. can be supplied in other grades of materials and with terminals of your choice; also marking when requested.

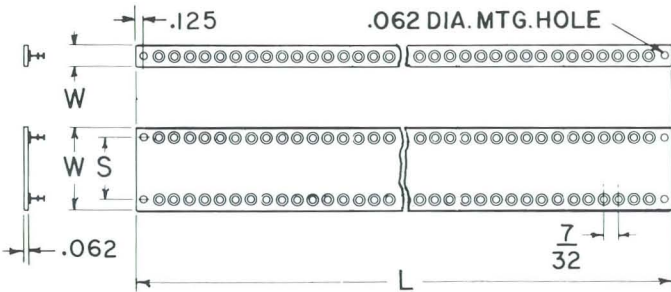


1562
ACTUAL SIZE

TERMINAL: Made of BRASS, QQ-B-626, COMP. 22,
1/2 Hard. HOT DIP SOLDER finish MIL-F-14072.
Mounting holes in board at each end.

The 1562 terminal is often specified for support and connection of transistors, resistors and small component parts. There is a .043 dia. hole thru the terminal and it stands 5/32" above the board.

MATERIAL: Choice of PBE or GEE 1/16" thick.



Terminals are staked in all holes except end mounting holes.

BOARDS ON THIS PAGE
ARE NOT SCORED
Choice of sizes



W	S	L	No. of Terms. Each Side	Material PBE Cat. No.	Material GEE Cat. No.
5/16	Single Row	1 1/16	5	15401	15501
		3 3/32	12	15402	15502
		4 5/8	19	15403	15503
		6 5/32	26	15404	15504
		7 11/16	33	15405	15505
3/4	1/2	1 1/16	5	15406	15506
		3 3/32	12	15407	15507
		4 5/8	19	15408	15508
		6 5/32	26	15409	15509
		7 11/16	33	15410	15510
1	3/4	1 1/16	5	15411	15511
		3 3/32	12	15412	15512
		4 5/8	19	15413	15513
		6 5/32	26	15414	15514
		7 11/16	33	15415	15515

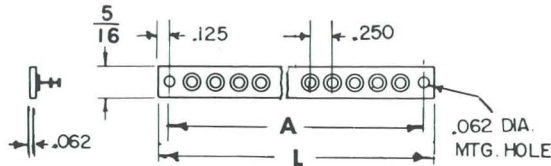
TURRET TERMINAL STRIPS

1/4" SPACINGS

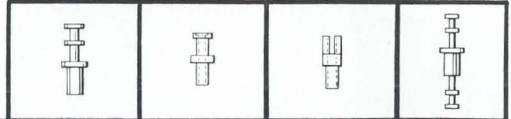
Material: 1/16" Thick PBE, Nat.



Terminals: Made of Brass QQ-B-626, comp 22, 1/2 hard.
FINISH: Hot Dip Solder for long shelf life and better solderability. MIL-F-14072, TYPE 221.



TERMINAL DRAWINGS ARE ACTUAL SIZE. CHOICE OF TERMINALS.

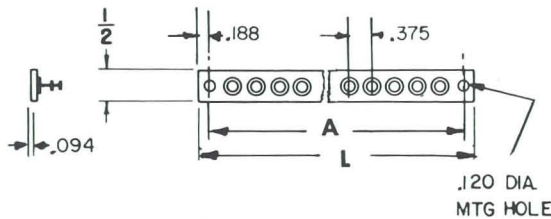
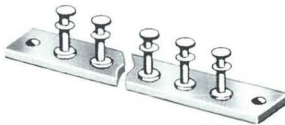


L	A	No. of Terms.	With 1502 Term. Cat. No.	With 1562 Term. Cat. No.	With 1526 Term. Cat. No.	With 1512 Term. Cat. No.
3/4	1/2	1	602-1	606-1	608-1	605-1
1	3/4	2	602-2	606-2	608-2	605-2
1 1/4	1	3	602-3	606-3	608-3	605-3
1 1/2	1 1/4	4	602-4	606-4	608-4	605-4
1 3/4	1 1/2	5	602-5	606-5	608-5	605-5
2	1 3/4	6	602-6	606-6	608-6	605-6
2 1/4	2	7	602-7	606-7	608-7	605-7
2 1/2	2 1/4	8	602-8	606-8	608-8	605-8
2 3/4	2 1/2	9	602-9	606-9	608-9	605-9
3	2 3/4	10	602-10	606-10	608-10	605-10

TURRET TERMINAL STRIPS

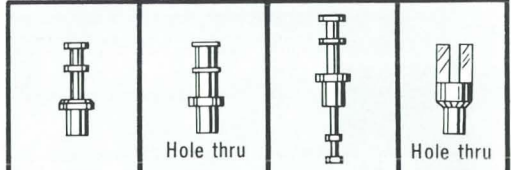
SPACING 3/8"

Material: 3/32" Thick PBE, Nat.



Terminals are staked in all holes except end mounting holes.

TERMINAL DRAWINGS ARE ACTUAL SIZE. CHOICE OF TERMINALS.



L	A	No. of Terms.	With 1503 Term. Cat. No.	With 1509 Term. Cat. No.	With 1545 Term. Cat. No.	With 1507 Term. Cat. No.
1 1/8	3/4	1	603-1	609-1	604-1	607-1
1 1/2	1 1/8	2	603-2	609-2	604-2	607-2
1 7/8	1 1/2	3	603-3	609-3	604-3	607-3
2 1/4	1 7/8	4	603-4	609-4	604-4	607-4
2 5/8	2 1/4	5	603-5	609-5	604-5	607-5
3	2 5/8	6	603-6	609-6	604-6	607-6
3 3/8	3	7	603-7	609-7	604-7	607-7
3 3/4	3 3/8	8	603-8	609-8	604-8	607-8
4 1/8	3 3/4	9	603-9	609-9	604-9	607-9
4 1/2	4 1/8	10	603-10	609-10	604-10	607-10

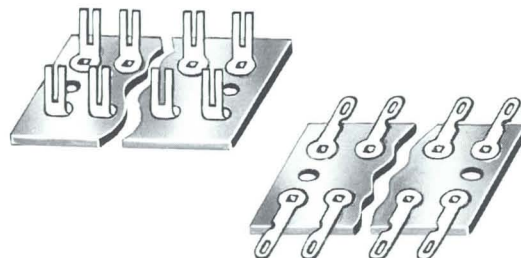
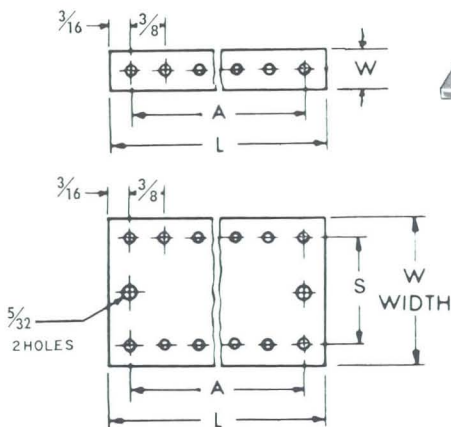
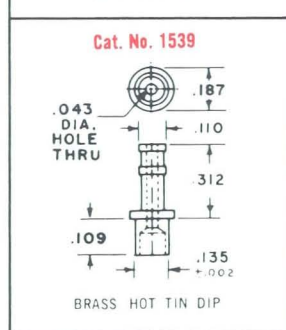
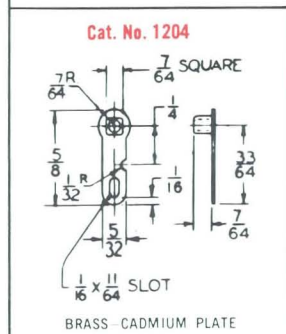
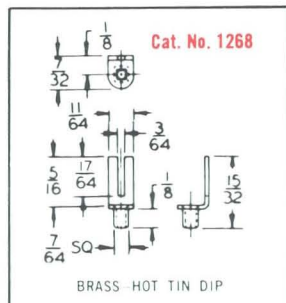
MODIFICATIONS: WE CAN MAKE THESE BOARDS IN LONGER LENGTHS, OTHER MATERIALS AND USING ANY OTHER STANDARD TERMINALS.

READI-MADE TERMINAL BOARDS



Readi-Made Terminal Boards are ideal for General Use. Excellent for mounting resistors, condensers, etc. Choice of Terminals.

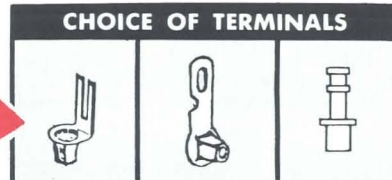
- SAVE TOOLING COST
- DELIVERY FROM STOCK
- RANGE OF SIZES
- APPROVED MATERIALS
- ECONOMICAL



TERMINALS: 1204 and 1268 are stamped from .023 thick brass. 1539 is turned from 3/16" dia. brass rod.
PLATING: 1204 is Cadmium plated. 1268 and 1539 are Hot Tinned for easy soldering.

MATERIAL: 1/16" thick Bakelite

TERMINAL DRAWINGS ARE ACTUAL SIZE



W	L	S	A	Terminals Each Side	With 1268 Term. Cat. No.	With 1204 Term. Cat. No.	With 1539 Term. Cat. No.
1	1 7/8	1/16	1 1/2	5	1268-10	1204-10	1239-10
1	2 1/4	1/16	1 7/8	6	1268-12	1204-12	1239-12
1	5 1/4	1/16	4 7/8	14	1268-28	1204-28	1239-28
1 3/4	3 3/4	1 3/16	3 3/8	10	1268-20	1204-20	1239-20
1 3/4	4 7/8	1 3/16	3 3/4	11	1268-22	1204-22	1239-22
1 3/4	7 1/8	1 3/16	6 3/4	19	1268-38	1204-38	1239-38
1/2	7 1/8	Single Row	6 3/4	19	1268-19	1204-19	1239-19

UNIVERSAL TERMINAL BOARDS

Designed for production or experimental use, these standardized boards are well suited for any electronic application requiring a sturdy mounting surface for resistors, condensers and components.

TERMINAL: 1503-3 HOT TIN DIP finish for easier soldering and infinite shelf life.

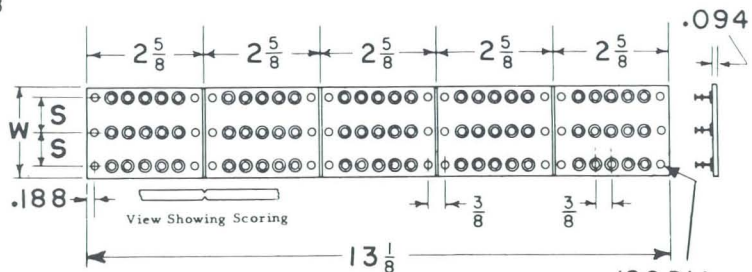
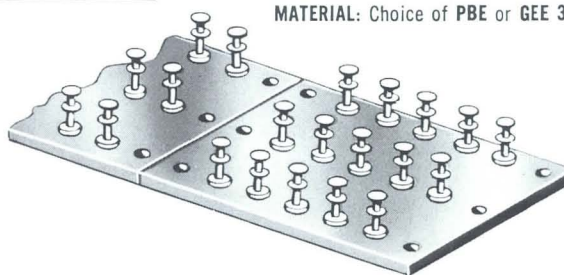
MATERIALS: PBE (Paper Base Elect. Mil-P-3115C type XXXP)
 GEE (Glass Epoxy Mil-P-18177 type G-10)

NOTE: 5 Sections Scored for easy separation.
 3 Rows of Terminals.

MODIFICATIONS: Other materials and terminals of your choice supplied. Marking may be added.

W	S	Total No. of Terms.	Material	Cat. No.
2 1/2	1	75	PBE	15332
			GEE	15342
3 1/2	1 1/2	75	PBE	15333
			GEE	15343

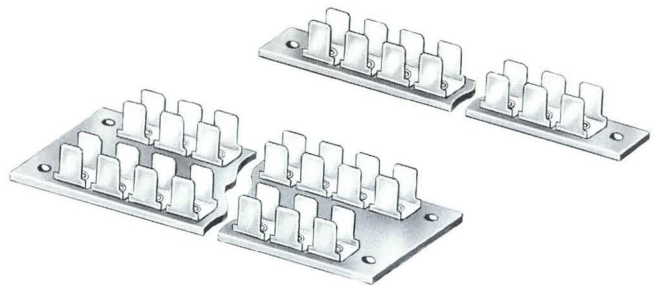
MATERIAL: Choice of PBE or GEE 3/32" thick.



5 Sections Scored for easy separation.
 3 Rows of Terminals.

STANDARDIZED KWIK DISCONNECT TERMINAL BOARDS

• AVAILABLE FROM STOCK • CHOICE OF TERMINALS • NO TOOLING COST • RANGE OF SIZES • ECONOMICAL



KWIK disconnect boards permit solderless connections of several circuits to a common feed line. For temporary or permanent connections. Eliminates excess wiring and soldering.

MATERIAL: Fiberglass—NEMA GRADE GPO-1. A glass polyester rated for continuous operation at 155°C or 300°F. Color of sheet is tan.

BACKING STRIPS: 1/32" thick fibre with mounting holes drilled only.

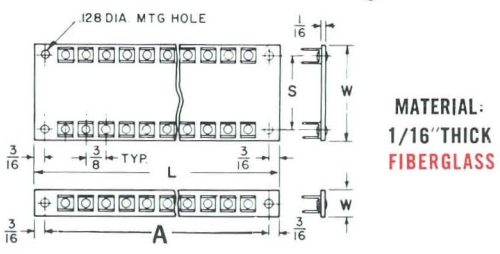
TERMINALS: 1253, 1254, 1255 made of Brass. MIL SPEC QQ-B-613, .018 Thick

PLATING: Hot tinned MIL-F-14072.

TERMINALS: 1256, 1257, 1258 made of Brass. MIL SPEC QQ-B-613, .032 Thick

PLATING: Bright Brass

Other platings available on special order.



.205 TAB			BACKING INSULATOR 1/32" thick FIBRE	.250 TAB NON-ROTATION TAB BASE		
1253	1254	1255		1256	1257	1258

W Width	L Length	A Mtg. C'trs	S	No. Term. Each Side	Boards Assembled with These Terminals CAT. NO.	Boards Assembled with These Terminals CAT. NO.	Boards Assembled with These Terminals CAT. NO.	Backing Strip CAT. NO.	Boards Assembled with These Terminals CAT. NO.	Boards Assembled with These Terminals CAT. NO.	Boards Assembled with These Terminals CAT. NO.
1/2	1 1/2	1 1/8	Single Row	2	4041	4056	4071	4401	4101	4116	4131
	2 1/4	1 7/8		4	4042	4057	4072	4402	4102	4117	4132
	3	2 5/8		6	4043	4058	4073	4403	4103	4118	4133
	3 3/4	3 3/8		8	4044	4059	4074	4404	4104	4119	4134
	4 1/2	4 1/8		10	4045	4060	4075	4405	4105	4120	4135
1 1/2	1 1/2	1 1/8	1	2	4046	4061	4076	4406	4106	4121	4136
	2 1/4	1 7/8		4	4047	4062	4077	4407	4107	4122	4137
	3	2 5/8		6	4048	4063	4078	4408	4108	4123	4138
	3 3/4	3 3/8		8	4049	4064	4079	4409	4109	4124	4139
	4 1/2	4 1/8		10	4050	4065	4080	4410	4110	4125	4140
2	1 1/2	1 1/8	1 1/2	2	4051	4066	4081	4411	4111	4126	4141
	2 1/4	1 7/8		4	4052	4067	4082	4412	4112	4127	4142
	3	2 5/8		6	4053	4068	4083	4413	4113	4128	4143
	3 3/4	3 3/8		8	4054	4069	4084	4414	4114	4129	4144
	4 1/2	4 1/8		10	4055	4070	4085	4415	4115	4130	4145

KD TERMINALS ONLY • AVAILABLE FROM STOCK

.205 Terminals with 7/64 square extruded base eyelet. Used in the above assemblies.

CAT. NO. 1253 CAT. NO. 1254 CAT. NO. 1255

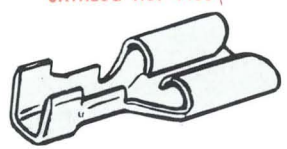
.250 Terminals are Bright Brass finish. .130 dia. hole

CAT. NO. 1256 CAT. NO. 1257 CAT. NO. 1258

CAT. NO.	A	B	C	Tab Width	Mat. Th'k'ns
1253	.328	.335	.270	.205	.018
1254	.328	.396	.270	.205	.018
1255	.328	.703	.270	.205	.018
1256	.437	.312	.312	.250	.032
1257	.405	.343	.312	.250	.032
1258	.405	.281	.312	.250	.032

MATING DISCONNECTS AND INSULATORS for either .205 or 250 KD Terminals

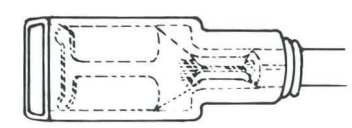
FEMALE KWIK DISCONNECTS
Wire Crimp with Insulation Support
Fits Tab .016-.030 thick and .205 wide
Wire Range 16-20
For .205 Terminals
CATALOG NO. 4469



Fits Tab .032 thick and .250 wide
Wire Range 16-20
For .250 Terminals
CATALOG NO. 4470

MOLDED VINYL PLASTIC BOOT

Slips over terminal. No tools or fastening required.



Available in the following colors:

Cat. No.	Colors
4471	Clear
4472	Red
4473	Blue
4474	Yellow

STANDARDIZED TERMINAL BOARDS



HEAVY DUTY BINDING POST STRIPS

Your Choice of Glass Epoxy or Fiberglass Materials

MATERIAL SPECIFICATIONS

FIBERGLASS: Reinforced Polyester NEMA Grade GPO-1, rated for 300°F. (155°C).

GEE: Glass Epoxy, MIL P-18177 temp., 300°F Max. Type G-10.

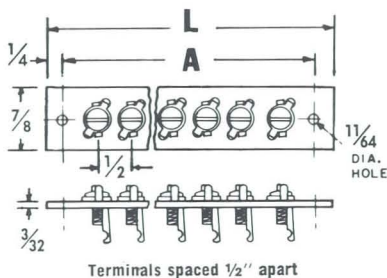
- Available from Stock
- Eliminate Costly Setup Charges

3/32" THICK MATERIAL 7/8" WIDE				
Glass Epoxy Cat. No.	Fiber-glass Cat. No.	L Length	A Mtg. C'trs	No. Term.
4147	4157	1½	1	1
4148	4158	2	1½	2
4149	4159	2½	2	3
4150	4160	3	2½	4
4151	4161	3½	3	5
4152	4162	4	3½	6
4153	4163	4½	4	7
4154	4164	5	4½	8
4155	4165	5½	5	9
4156	4166	6	5½	10



Terminal supplied on these boards is **No. 1209**, Brass, Hot tin finish. Dimensional dwg. on Page 35.

Screw: Brass-Nickel Plated



Terminals spaced 1/2" apart

STANDARD BINDING POST STRIPS

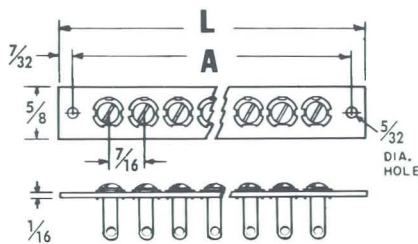
1/16" THICK MATERIAL 5/8" WIDE

Glass Epoxy Cat. No.	Fiber-glass Cat. No.	L Length	A Mtg. C'trs	No. Term..
4177	4167	1¼	¾	1
4178	4168	1½	1¾	2
4179	4169	2¼	1¾	3
4180	4170	2¾	2¾	4
4181	4171	3	2¾	5
4182	4172	3¼	3¼	6
4183	4173	3¾	3½	7
4184	4174	4¾	3½	8
4185	4175	4¾	4¾	9
4186	4176	5¼	4¾	10



Terminal supplied on these boards is **No. 1248**, Brass, Cad. Pl. Dimensional dwg. on Page 35.

Screw: Steel-Cadmium Plated



Terminals spaced 7/16" apart

FEED-THRU TERMINAL BOARDS

Copper pins are forced into hole of the phenolic, then flattened and pierced. Terminals are hot tin dipped for good solderability.

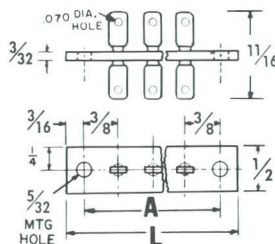
- Low Cost Feed-Thru Terminations
- For Light or Heavy Duty Applications

CAT. NO.	No. Lugs	A Mtg. Ctr.	L Length
1220-1	1	¾	1½
1220-2	2	1½	1½
1220-3	3	1½	1¾
1220-4	4	1¾	2¼
1220-5	5	2¼	2¾
1220-6	6	2¾	3
1220-7	7	3	3¾
1220-8	8	3¾	3¾
1220-9	9	3¾	4½
1220-10	10	4¾	4½



MATERIAL:

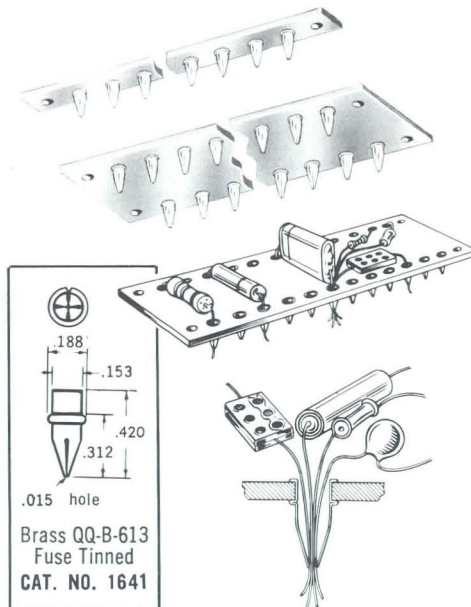
PBE: Paper base electrical, MIL-P-3115C, Type XXXP Temp. 250 deg. F max.



CONICAL GRIP BOARDS

- More Reliable
- Time Saving
- Less Costly
- Easily Serviced
- SPRING ACTION FINGERS HOLD LEADS
- ELIMINATES TIME-CONSUMING WRAPPING OF WIRES

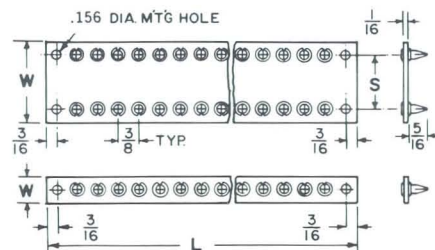
Brass, tinned Conical Terminals are firmly staked to 1/16" thick fiberglass insulator that will withstand temperatures to 300 degrees F. Wire leads are retained until ready to multiple dip solder.



Brass QQ-B-613 Fuse Tinned CAT. NO. 1641

MATERIAL SPECIFICATIONS:

FIBERGLASS: Reinforced Polyester NEMA Grade GPO-1, rated for 300°F. (155°C).



W	S	L	NO. OF TERM. EACH SIDE	CAT. NO.
1/2	Single Row	2¾	5	4500
		5¼	12	4501
		7¾	19	4502
		10½	26	4503
		13¾	33	4504
1½	1	2¾	5	4505
		5¼	12	4506
		7¾	19	4507
		10½	26	4508
		13¾	33	4509
2	1½	2¾	5	4510
		5¼	12	4511
		7¾	19	4512
		10½	26	4513
		13¾	33	4514

THE PRACTICAL APPROACH TO SIMPLE OR COMPLEX CIRCUITRY
LOW COST — IMMEDIATE DELIVERY — CHOICE OF SIX POPULAR PATTERNS AND MATERIALS

STANDARDIZED KEYBOARDS: Permits time saving, low cost, assembly of components. Used extensively in development of prototype breadboarding, test design or production runs. A large selection of sizes and materials offers the designer the flexibility and convenience needed to create special circuitry on short notice.

ELECTRONIC HARDWARE: A large selection of turret, push-in and stamped terminals, brackets, eyelets, etc. available from stock.

STAKING TOOLS: Inexpensive tooling supplied for staking eyelets, bushings, turret terminals, etc. You can do an entire assembly at your bench with ease, using our impact tool. Other tools for arbor, kickpress, drill press. See Staking Tool page

SPECIAL SERVICES: We will install eyelets or terminals to suit your application. We invite inquiries for special sizes or additional holes drilled. Prompt quotations rendered at no cost to you.

MATERIAL SPECIFICATIONS & TOLERANCES

XXXP Type PBE (Paper Base Elect.) Mil-P-3115C Temp. 250° F Max.

XXXPC Type PP Copper Clad Mil-P-13949 Temp. 250° F Max.

PAPER BASE EPOXY Mil-P-22324 (Type PEE) Temp. 250° F Max.

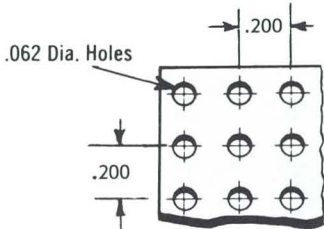
GLASS EPOXY UNCLAD Mil-P-18177 G-10 (GEE) Temp. 300° F Max.

GLASS EPOXY Copper Clad Mil-P-13949B (GE) Temp. 300° F Max.

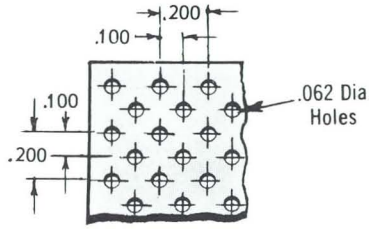
TOLERANCE: Length and width overall dimension after fabrication Plus or Minus .015.

HOLE SIZE: Plus or Minus .003.

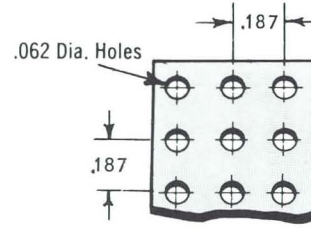
Thickness of standard sheet varies Plus or Minus $\frac{1}{16}$ or .010 for $\frac{3}{32}$ " thick.



"F" PATTERN .062 DIA. HOLES



"G" PATTERN .062 DIA. HOLES



"B" PATTERN .062 DIA. HOLES

"F" PATTERN .062 DIA. HOLES .200 x .200 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural	Glass Epoxy	Paper Base Epoxy	1/16" THICK			
					Glass Epoxy Cop. Clad (1 Side)	Glass Epoxy Cop. Clad (2 Sides)	XXXP Cop. Clad (1 Side)	XXXP Cop. Clad (2 Sides)
1.25 x 8.50	6 x 42	Cat. No. 1730	Cat. No. 1844	Cat. No. 1730EP	Cat. No. 1846	Cat. No. 1847	Cat. No. 1848	Cat. No. 1853
3.00 x 4.50	15 x 22	1835	1845	1835EP	1836	1837	1838	1839
3.63 x 8.50	18 x 42	1773	1854	1773EP	1855	1856	1857	1858
3.63 x 17.00	18 x 85	1775	1859	1775EP	1864	1865	1866	1867
4.50 x 6.50	22 x 30	1868	1870	1868EP	1876	1877	1878	1879
4.50 x 8.50	22 x 42	1869	1871	1869EP	1881	1886	1887	1888
4.88 x 8.50	24 x 42	1774	1872	1774EP	1882	1889	1894	1899
4.88 x 17.00	24 x 85	1776	1873	1776EP	1883	1891	1895	1902
8.50 x 8.50	42 x 42	1777	1874	1777EP	1884	1892	1896	1903
8.50 x 17.00	42 x 85	1778	1875	1778EP	1885	1893	1897	1904

"G" PATTERN .062 DIA. HOLES .100 GRID ALTERNATES

Size Width & Length	No. of Holes W & L	XXXP Natural	Glass Epoxy	Paper Base Epoxy	Glass Epoxy Copper Clad	
					(1 Side)	(2 Sides)
1/16" THICK						
1.75 x 4.00	(8 x 19) x 2	Cat. No. 1752	Cat. No. 1909	Cat. No. 1752EP	Cat. No. 1919	Cat. No. 1920
2.25 x 8.50	(11 x 42) x 2	1754	1910	1754EP	1921	1922
3.50 x 4.00	(17 x 19) x 2	1753	1911	1753EP	1923	1924
3.50 x 8.50	(17 x 42) x 2	1905	1912	1905EP	1925	1926
3.50 x 17.00	(17 x 85) x 2	1906	1913	1906EP	1927	1928
3.88 x 8.50	(19 x 42) x 2	1907	1914	1907EP	1929	1930
4.88 x 8.50	(24 x 42) x 2	1908	1915	1908EP	1931	1932
4.88 x 17.00	(24 x 85) x 2	1779	1916	1779EP	1933	1934
8.50 x 8.50	(42 x 42) x 2	1780	1917	1780EP	1935	1936
8.50 x 17.00	(42 x 85) x 2	1781	1918	1781EP	1937	1938

"B" PATTERN .062 DIA. HOLES .187 x .187 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural	XXXP Copper Clad (1 Side)
1.38 x 8.50	6 x 45	Cat. No. 1761	Cat. No. 1818
1.88 x 8.50	10 x 45	1734	1819
2.44 x 3.38	12 x 17	1812	1813
2.84 x 8.50	15 x 45	1735	1820
3.66 x 6.75	19 x 35	1824	1825
5.69 x 8.50	30 x 45	1762	1834
5.69 x 17.00	30 x 90	1736	1831
6.75 x 7.31	35 x 39	1826	1827
7.31 x 10.50	38 x 56	1828	1829
7.31 x 18.00	38 x 95	1832	1830
8.50 x 17.00	45 x 90	1763	1833

TERMINALS AND EYELETS

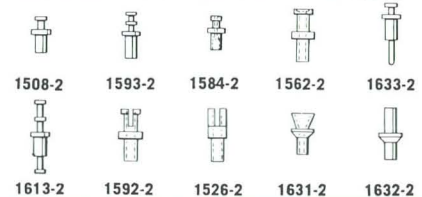
For Boards with .062 dia. Holes

Dimensional drawings of Terminals on pages 38 to 41

TERMINALS

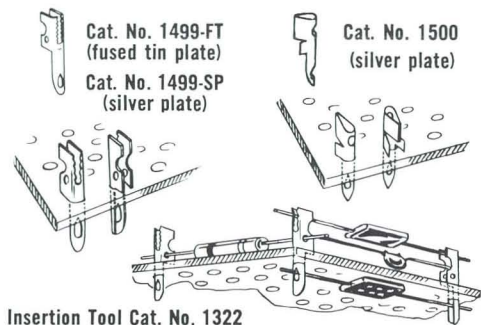
Brass, (Mil Spec QQ626) and Silver Plated.

ALL TERMINAL DRAWINGS ARE ACTUAL SIZE.



PUSH-IN TERMINALS

Made of Beryllium Copper.



PRECISION MADE EYELETS

Made of Brass and Hot Tinned for easy solderability.

Cat. No. 23 For 1/16" thick Board

MINIATURE TUBULAR TERMINALS

TAPERED SECTION RETAINS WIRE LEADS



Terminals are pre-tinned for easy soldering.

Insertion Tool Cat. No. 1214

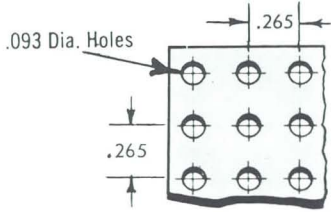
A variety of mounting brackets and staking tools are listed on the following pages.

PRE-PUNCHED TERMINAL BOARDS

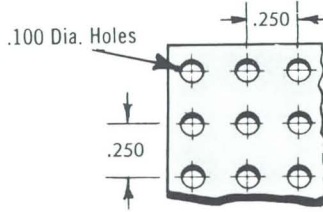
KEYBOARDS



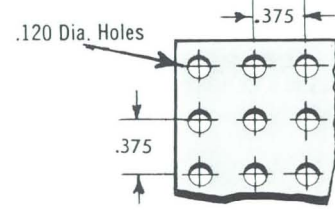
- COMPLETE RANGE OF SIZES AND SUITABLE HARDWARE
- "DO IT YOURSELF" STAKING TOOLS
- COPPER CLAD FOR PRINTED CIRCUITS
- UNCLAD TYPE FOR WIRED CIRCUITS
- STANDARD AND CUSTOM-MADE



"A" PATTERN .093 DIA. HOLES



"E" PATTERN .100 DIA. HOLES



"H" PATTERN .120 DIA. HOLES

"A" PATTERN .093 DIA. HOLES .265 x .265 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural	Glass Epoxy	Paper Base Epoxy
1/16" THICK				
		Cat. No.	Cat. No.	Cat. No.
.82 x 8.50	3 x 32	1731	1790	1796EP
1.88 x 8.50	7 x 32	1737	1791	1797EP
2.44 x 8.50	9 x 32	1738	1788	1798EP
3.25 x 8.50	13 x 32	1785	1789	1801EP
3.25 x 17.00	13 x 64	1786	1787	1802EP
4.88 x 4.88	18 x 18	1806	1807	1803EP
4.88 x 8.50	18 x 32	1784	1792	1804EP
4.88 x 17.00	18 x 64	1739	1793	1805EP
8.50 x 8.50	32 x 32	1732	1794	1808EP
8.50 x 17.00	32 x 64	1733	1795	1809EP
3/32" THICK				
1.38 x 1.88	5 x 7	1758	—	1758EP
1.38 x 4.00	5 x 15	1760	—	1760EP
1.38 x 8.50	5 x 32	1749	—	1749EP
1.88 x 2.94	7 x 11	1759	—	1759EP
1.88 x 8.50	7 x 32	1740	—	1740EP
2.44 x 8.50	9 x 32	1741	—	1741EP
3.25 x 8.50	13 x 32	1814	—	1814EP
3.25 x 17.00	13 x 64	1816	—	1816EP
4.88 x 8.50	18 x 32	1756	—	1756EP
4.88 x 17.00	18 x 64	1742	—	1742EP
8.50 x 8.50	32 x 32	1817	—	1817EP
8.50 x 17.00	32 x 64	1757	—	1757EP

TERMINALS AND EYELETS For Boards with .093-.100 dia. Holes

NOTE: When ordering Turret Terminals BE SURE TO SPECIFY Cat. No. of Terminal and add -2 for 1/16" thick Board and -3 for 3/32" thick Board
I.E. 1598-2 for 1/16" thick Board and 1598-3 for 3/32" thick Board

TERMINALS Brass (Mil Spec QQ626) and Silver Plated.
ALL TERMINAL DRAWINGS ARE ACTUAL SIZE.

1502 1514 1598 1511 1540 1530 1512 1634 1595

PUSH-IN TERMINAL SOLDERLESS
Made of Beryllium Copper.
Cat. No. 1498-CP (cadmium plate)
Cat. No. 1498-SP (silver plate)
Insertion Tool Cat. No. 1323

PRECISION MADE EYELETS
Made of Brass and Hot Tinned for easy solderability
Specify Cat. No. 33 for 1/16" thick Board
Cat. No. 34 for 3/32" thick Board

"E" PATTERN .100 DIA. HOLES .250 x .250 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural
1/16" THICK		
		Cat. No.
2.13 x 4.00	8 x 16	1750
2.13 x 8.50	8 x 34	1765
3.63 x 8.50	14 x 34	1766
8.50 x 8.50	34 x 34	1767
8.50 x 17.00	34 x 68	1768
3/32" THICK		
2.13 x 8.50	8 x 34	1770
8.50 x 8.50	34 x 34	1771
8.50 x 17.00	34 x 68	1772

TERMINALS AND EYELETS For Boards with .120 dia. Holes

TERMINALS
ALL TERMINAL DRAWINGS ARE ACTUAL SIZE.

1532 1504 1505 1503 1553 1509 1541
1510 1507 1525 1522 1542 1551 1545

PRECISION MADE EYELETS
Specify Cat. No. 43 eyelet for 1/16" thick Board
Cat. No. 44 eyelet for 3/32" thick Board

"H" PATTERN .120 DIA. HOLES .375 x .375 C to C

Size Width & Length	No. of Holes W & L	XXXP Natural	Paper Base Epoxy
1/16" THICK			
		Cat. No.	Cat. No.
1.88 x 8.25	5 x 22	1743	—
2.25 x 8.25	6 x 22	1744	—
4.13 x 8.25	11 x 22	1782	—
4.13 x 16.50	11 x 44	1745	—
3/32" THICK			
1.88 x 8.25	5 x 22	1746	1746EP
2.25 x 8.25	6 x 22	1747	1747EP
4.13 x 8.25	11 x 22	1783	1783EP
4.13 x 16.50	11 x 44	1748	1748EP
6.00 x 8.25	16 x 22	1941	1941EP
6.00 x 16.50	16 x 44	1942	1942EP
8.25 x 8.25	22 x 22	1943	1943EP
8.25 x 16.50	22 x 44	1939	1939EP

Dimensional drawings of Terminals on pages 38 to 41

PLUG-IN CARDS

STANDARDIZED PERFORATED PLUG-IN-CARDS

These boards provide a quick, economical and flexible method to produce electronic circuitry. All boards listed here have .062 (1/16" dia.) holes on alternate .100 centers. Made of 1/16" thick glass epoxy G-10 Mil-P-18177, or paper base epoxy Mil-P-22324. Available with or without Elco "Varicon" contacts attached. Contacts are gold plated. Receptacles are available from local distributors.

HARDWARE: We stock a variety of brass turret terminals, push-in, and stamped terminals, eyelets, brackets, washers etc.

STAKING TOOLS: We stock a variety of staking tools for eyelets and terminals suitable for production staking, or "DO IT YOURSELF" simple tooling for use at the bench. See page 36

SERVICES: We install terminals or eyelets and can custom make boards suitable for your application. Standard tooling used wherever possible at no tool charge to customer, unless extreme changes are necessary. Additional holes can be drilled at a slight charge

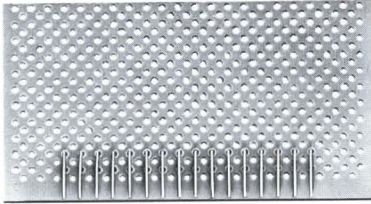


FIG. 1

AVAILABLE FROM STOCK IN A CHOICE OF 3 VARIATIONS

1. Elco "Varicon" contacts and eyelets assembled.
2. Eyelets only less "Varicon" contact.
3. Board only — less all hardware.

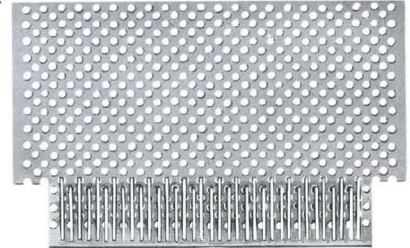


FIG. 2



Recommended
for use with

AVAILABLE WITH

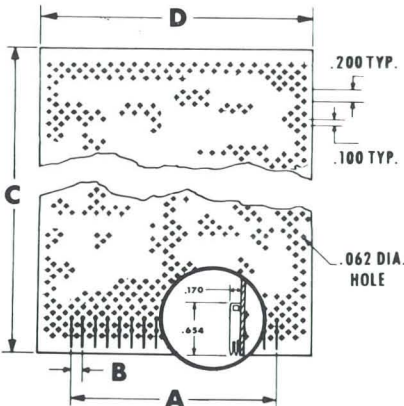


FIG. 1

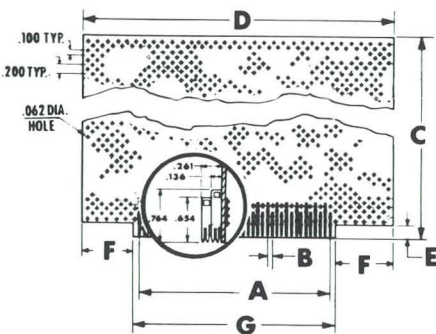


FIG. 2

Cat. No.	Fig. No.	Material	No. of Contacts	No. of Eyelets	A	B	C	D	E	F	G	*Elco Type Receptacles
1944	1	Paper Epoxy	16	32	3.0	.200	6.5	4.5	—	—	—	5009-016-156-001
1945	1	Paper Epoxy	—	32	—	—	6.5	4.5	—	—	—	—
1946	1	Paper Epoxy	—	—	—	—	6.5	4.5	—	—	—	—
1947	1	Glass Epoxy	16	32	3.0	.200	6.5	4.5	—	—	—	5009-016-156-001
1948	1	Paper Epoxy	12	24	2.2	.200	4.5	3.0	—	—	—	5009-012-156-001
1949	1	Paper Epoxy	—	24	—	—	4.5	3.0	—	—	—	—
1950	1	Paper Epoxy	—	—	—	—	4.5	3.0	—	—	—	—
1951	1	Glass Epoxy	12	24	2.2	.200	4.5	3.0	—	—	—	5009-012-156-001
1952	1	Paper Epoxy	14	28	2.6	.200	4.5	3.0	—	—	—	5004-014-103-002
1953	1	Paper Epoxy	—	28	—	—	4.5	3.0	—	—	—	—
1954	1	Paper Epoxy	—	—	—	—	4.5	3.0	—	—	—	—
1955	1	Glass Epoxy	14	28	2.6	.200	4.5	3.0	—	—	—	5004-014-103-002
1956	1	Paper Epoxy	20	40	3.8	.200	3.0	4.5	—	—	—	5004-020-103-002
1957	1	Paper Epoxy	—	40	—	—	3.0	4.5	—	—	—	—
1958	1	Paper Epoxy	—	—	—	—	3.0	4.5	—	—	—	—
1959	1	Glass Epoxy	20	40	3.8	.200	3.0	4.5	—	—	—	5004-020-103-002
1960	2	Glass Epoxy	35	70	3.4	.100	6.5	4.5	.750	.397	3.71	7008-035-146-001
1961	2	Glass Epoxy	—	70	3.4	.100	6.5	4.5	.750	.397	3.71	—
1962	2	Glass Epoxy	—	—	—	—	6.5	4.5	.750	.397	3.71	—
1963	2	Paper Epoxy	35	70	3.4	.100	6.5	4.5	.750	.450	3.6	7001-035-146-001
1964	2	Paper Epoxy	—	70	3.4	.100	6.5	4.5	.750	.450	3.6	—
1965	2	Paper Epoxy	—	—	—	—	6.5	4.5	.750	.450	3.6	—
1966	2	Glass Epoxy	35	70	3.4	.100	6.5	4.5	.750	.450	3.6	7001-035-146-001

*KEYSTONE DOES NOT HANDLE ELCO RECEPTACLES — AVAILABLE FROM LOCAL DISTRIBUTORS ONLY

PUSH-IN TERMINALS



PUSH-IN TERMINALS For .062 & .093 Dia. Holes

Terminals are pressed into the holes of the board manually; or a low cost insertion tool can be supplied for use at the bench, in an arbor or drill press.

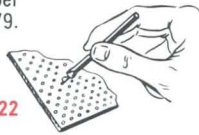
- QUICK & EASY TO INSTALL
- NO STAKING REQUIRED
- FOR PRODUCTION OR EXPERIMENTAL USE

"FLEA" CLIP (For .062 Dia. Holes)

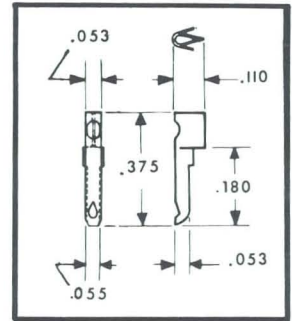
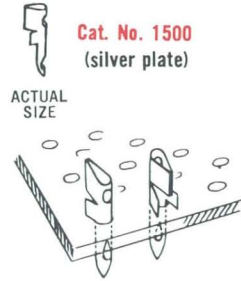
For subminiature applications where conventional terminals are too large or too costly. The design engineer will find them most useful; and the serviceman will need these for quick repairs of printed circuitry. Simply insert wire thru hole and it is held firmly by spring wipe action assuring continued positive contact.

MATERIAL: .008 thick Beryllium Copper per QQ-C-533 and Heat Treated to 15N, 73-79.

FINISH: Silver Plate per QQ-S-365 type 2.



Insertion Tool Cat. No. 1322



"IMP" TERMINAL (For .062 Dia. Holes)

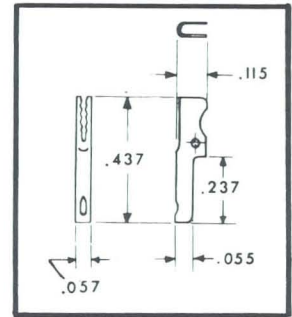
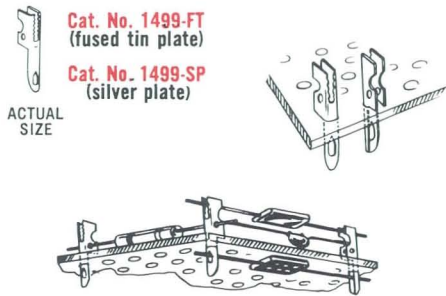
The name implies the miniature characteristics of this terminal. It is only slightly larger than the "FLEA" clip. Excellent for point to point or feed thru wiring. Slot is serrated to grip transistor or heavier leads. Multiple connections are made quick and easy.

MATERIAL: .008 thick Beryllium Copper.

FINISH: Fused Tin Plate or Silver Plate.



Insertion Tool Cat. No. 1322

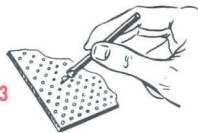


SOLDERLESS TERMINAL (For .093 Dia. Holes)

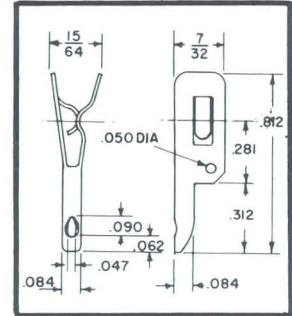
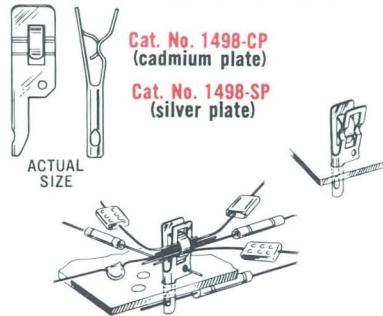
Our newly designed terminal for production or breadboarding use. Holds as many as 7 leads without soldering. A rugged, spring action precision stamped terminal.

MATERIAL: .015 Beryllium Copper.

FINISH: Cadmium Plate per QQ-P-416 Class 2, Type 2 and Clear Iridite, or Silver Plate.



Insertion Tool Cat. No. 1323



MINIATURE TUBULAR TERMINALS (for .062-.067 diam. Hole)

- IDEAL FOR PRINTED CIRCUITRY
- TAPERED SECTION RETAINS WIRE LEADS
- MOUNT TRANSISTORS, RESISTORS, NEONS
- POSITIVE LOCKING IN HOLE - NO STAKING REQUIRED

Will firmly hold a wire in range of .010 to .050 diam.

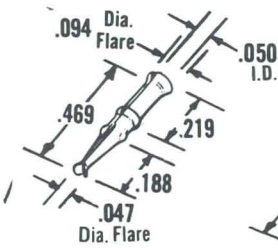


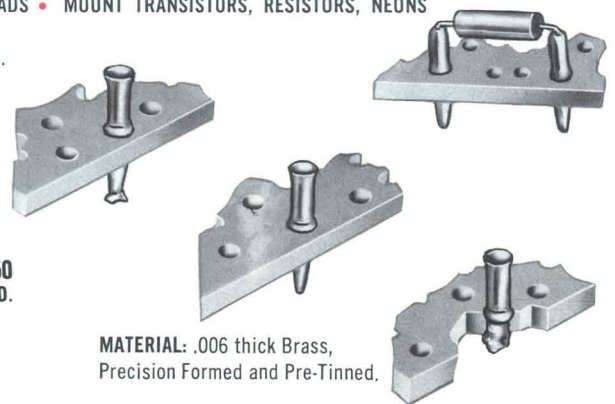
Fig. 1



Fig. 2



Fig. 3



MATERIAL: .006 thick Brass, Precision Formed and Pre-Tinned.

INSERTION TOOL

For Arbor Press or similar reciprocating device. Specify **CAT. NO. TL-11**



For Hand Insertion Tool. Specify **CAT. NO. 1214**



TERMINALS

For 1/16" Thick Insulator

CAT. No.	FIG.
1236	1
1237	2
1238	3

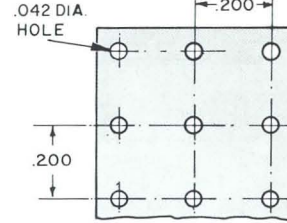
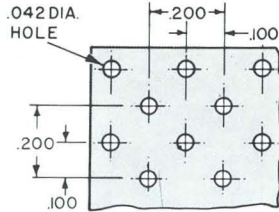
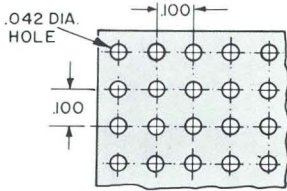
These terminals are often used for transistor and Bi-Pin lamp sockets. Terminals snap into a .062-.067 diam. hole of a 1/16" thick insulator and are firmly held without the need of staking. Wire leads can be inserted from either end and retained. Terminals 1236 and 1237 have tapered socket spring forming that will hold a number of leads in position and allow multiple dip soldering. Terminals are pre-tinned for easy soldering.

PRE-PUNCHED BOARDS AND MODULE SOCKETS

- FOR MODULE STACKS
- SMALLER PLUG-IN CARDS POSSIBLE
- PERMITS HIGHER COMPONENT DENSITY FOR SUBMINIATURE CIRCUITRY

MICRO-MINIATURE KEYBOARDS WITH .042 DIA. HOLES

MATERIAL GLASS EPOXY UNCLAD Mil-P-18177 G-10 (GEE) Temp. 300° F. Max.
GLASS EPOXY Copper Clad Mil-P-13949B (GE) Temp. 300° F. Max.
TOLERANCE: Length and width overall dimension after fabrication Plus or Minus .015.



"P" PATTERN .042 HOLES .100 x .100				"M" PATTERN .042 HOLES .100 x .200				"J" PATTERN .042 HOLES .200 x .200			
Width & Length	No. Holes W & L	Glass Epoxy	Glass Epoxy Cop. Clad (1 Side)	Width & Length	No. Holes W & L	Glass Epoxy	Glass Epoxy Cop. Clad (1 Side)	Width & Length	No. Holes W & L	Glass Epoxy	Glass Epoxy Cop. Clad (1 Side)
1/32" THICK MATERIAL		CAT. NO.	CAT. NO.	1/32" THICK MATERIAL		CAT. NO.	CAT. NO.	1/32" THICK MATERIAL		CAT. NO.	CAT. NO.
2x4½	19x44	4225	4234	2x4½	9x22x2	4242	4250	2x4½	9x22	4258	4266
2x6	19x59	4226	4235	2x6	9x29x2	4243	4251	2x6	9x29	4259	4267
4½x6	44x59	4227	4236	4½x6	22x29x2	4244	4252	4½x6	22x29	4260	4268
6x17	59x169	4228	4237	6x17	29x84x2	4245	4253	6x17	29x84	4261	4269
3/64" THICK MATERIAL		CAT. NO.	CAT. NO.	3/64" THICK MATERIAL		CAT. NO.	CAT. NO.	3/64" THICK MATERIAL		CAT. NO.	CAT. NO.
2x4½	19x44	4229	4238	2x4½	9x22x2	4246	4254	2x4½	9x22	4262	4270
2x6	19x59	4230	4239	2x6	9x29x2	4247	4255	2x6	9x29	4263	4271
4½x6	44x59	4231	4240	4½x6	22x29x2	4248	4256	4½x6	22x29	4264	4272
6x17	59x169	4232	4241	6x17	29x84x2	4249	4257	6x17	29x84	4265	4273

EYELET KEYBOARDS FOR MINIATURE CIRCUITRY

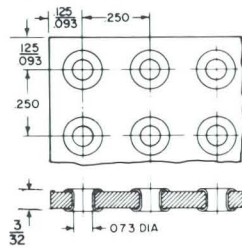
- Available from Stock.
- Construct Modules—Bridge Circuits—Printed Circuit Layout.
- Replaces Costly Terminal Board Assemblies.
- For Lab or Production Use.

An essential building block that will assist the designer and engineer in planning and layout of electronic circuitry. Eyelets are tinned for easy soldering. Boards can be stored indefinitely and will retain soldering characteristics.



Material: PBE XXXP Phenolic Mil-P-3115C.
Eyelets: MIL SPEC QQ-B-613
Finish: Tinned, Mil-P-14072, Type 221.

- EYELETS INSTALLED IN ALL HOLES
- ¼" SPACING IN BOTH DIRECTIONS



Material: 3/32" Thick PBE, Nat.

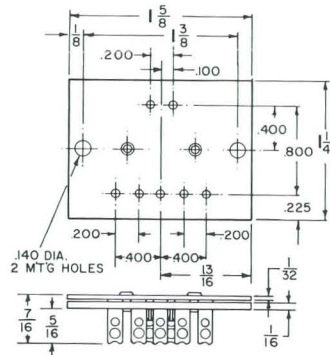
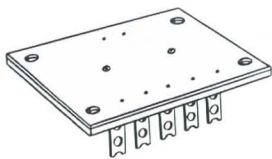
CAT. NO.	No. of Holes W & L	W	L	No. of Eyelets
4283	5x5	1¼	1¼	25
4284	6x10	1½	2½	60
4285	10x13	2½	3¼	130
4286	13x18	3¼	4½	234
4287	14x16	3½	4	224
4288	16x24	4	6	384

MODULE WAFER SOCKETS FOR .040 PINS

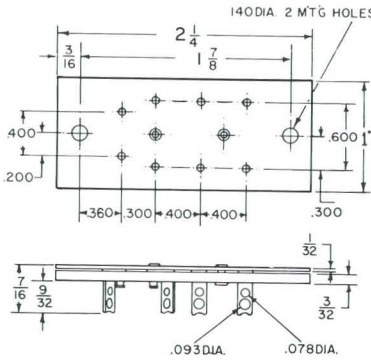
FOR Most Standard Encapsulated Operational Amplifiers and Module Circuits

MATERIAL: Glass Epoxy Mil-P-18177 type G-10
CONTACTS: Cat. No. 1240. Made of Brass, Cadmium Plated. See Page 34 for dimensional drawing and other contacts available.

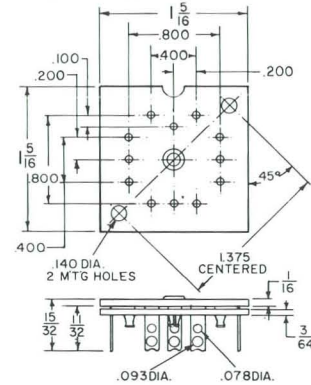
Precision drilled wafers hold contacts in perfect alignment. Insertion is easy and pins are grasped firmly.



CAT. NO. 1400



CAT. NO. 1401



MATERIAL: NEMA Grade XP Phenolic Wafers.

CAT. NO. 1402

STANDARDIZED PLUG-IN HOUSINGS



PLUG IN HOUSINGS

Enhance the appearance and give that professional look to your products using these molded housings. Ideally suited for packaging relays, logic packages, networks and miniature circuitry. Durable, lightweight covers that will withstand vibrations and rough usage. A most popular size metal cover is included in this listing of stock items.

HEADERS: Molded of G.P. black phenolic and fit standard sockets. Pins are Brass, Nickel Plated. Guide hole tapped 8-32 for terminal board mounting stud.

- Variety of molded materials
- Good chemical resistance
- Low water absorption

Housing with Octal Header & 4 Screws CAT. NO.	Housing Only CAT. NO.	Fig. No.	Type	Material	Color
660	670	1	Mini	Butyrate	Clear
661	671	1	Mini	Nylon	White
662	672	1	Mini	Polystyrene	Clear
641	645	1	Mini	Polystyrene	Opaque Black
642	646	1	Mini	Polystyrene	Transp. Red
663	673	2	Small	Butyrate	Clear
664	674	2	Small	Nylon	White
665	676	2	Small	Polystyrene	Clear
643	647	2	Small	Polystyrene	Opaque Black
644	648	2	Small	Polystyrene	Transp. Red
650	649	3	Large	Butyrate	Clear
668	679	3	Large	Polystyrene	Clear
677	666	3	Large	Polystyrene	Opaque Black
678	667	3	Large	Polystyrene	Transp. Red
639	640	4	Xtra-L'ge	Polystyrene	Clear
669	680	5	Small	Steel	Electro Tin Plate

MATERIAL CHARACTERISTICS:

POLYSTYRENE: For general purpose use where high impact strength is not required and temperature would not exceed 170° F.

BUTYRATE: 3 times the impact strength of Polystyrene and excellent electrical properties, use wherever temperatures of 210° F exist.

NYLON: Impact strength slightly less than Butyrate but recommended for use where temperatures are as high as 300° F.

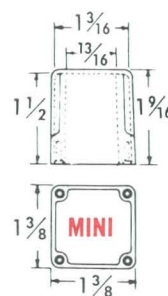


FIG. 1

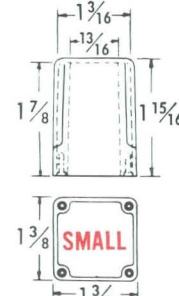


FIG. 2

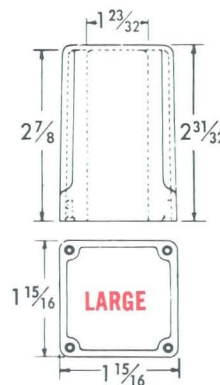
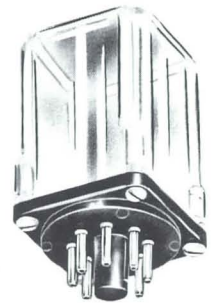


FIG. 3

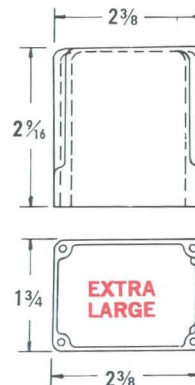


FIG. 4

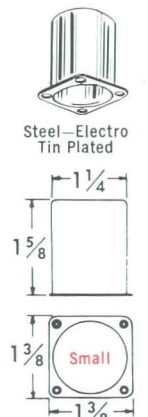


FIG. 5

HEADERS

HEADERS: Headers are available in two sizes and a variety of pin configurations that fit standard sockets. Molded of general purpose phenolic with brass nickel plated pins sturdily staked. Guide hole tapped 8-32 for terminal board mounting stud.

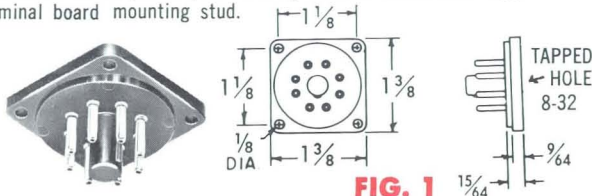


FIG. 1

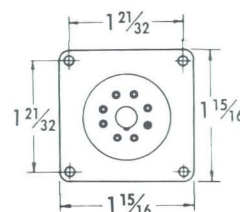


FIG. 2

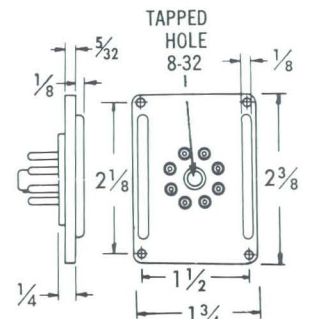


FIG. 3

Header only for Fig. 4 Case Above

1 3/8 Sq. Headers for Mini & Small Housing (Fig. 1 Above) CAT. NO.	Pin Configuration	1 15/16 Sq. Headers for Large Housing (Fig. 2 Above) CAT. NO.	1 3/4 x 2 3/8 Headers for Extra Large Housing (Fig. 3 Above) CAT. NO.
681	Octal	685	690
682	Nine Pin	Not Available	Not Available
683	Eleven Pin	686	Not Available
684	Twenty Pin	687	691

SELF-TAPPING SCREWS

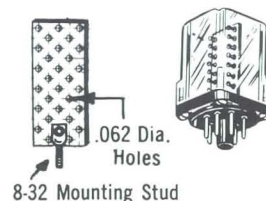


CAT. NO. 688—For miniature & small covers #4 x 5/16
CAT. NO. 689—For large covers #4 x 3/8

TERMINAL BOARDS

(For Use with Above Housings)

THESE BOARDS ARE STOCKED IN XXXP PAPERBASE AND GLASS EPOXY MATERIAL. SPACING OF HOLES IS .100 and .200 ALTERNATES. AN 8-32 THREADED STUD IS FIRMLY EYELETTED TO THE BOARD AND IS EASILY ASSEMBLED INTO THE TAPPED HOLE OF THE HEADERS.



BOARD THICKNESS 1/16"

XXX PBE MIL-P-3115C Bakelite Cat. No.	Glass Epoxy G-10, GEE MIL-P-18177B Cat. No.	Size of Board with Stud	For Covers Listed Above
692	696	1 x 1 1/16	Miniature
693	697	1 1/8 x 1 3/4	Small
694	698	1 1/2 x 2 3/4	Large
695	699	1 1/8 x 1 7/16	Metal Case
637	638	1 1/16 x 2 3/8	Xtra Large

STANDARDIZED CONSTRUCTION BLOCKS

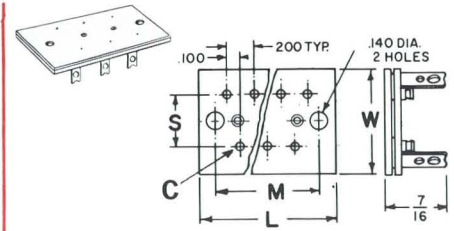
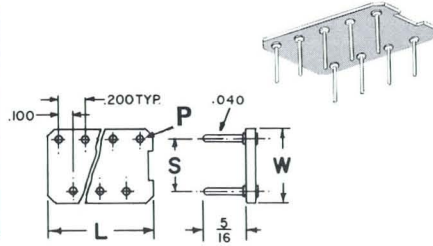
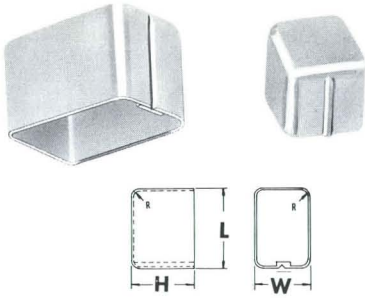
for • **MODULES**
• **TRANSFORMERS**

Choice of 8 POPULAR CASES — HEADERS and SOCKETS for Miniature and Subminiature circuits

• **ECONOMICAL** • **IMMEDIATE DELIVERY FROM STOCK** • **MAXIMUM DENSITY OF PACKAGING**

You can assemble a Modular or Subminiature circuit at low cost and professional in appearance.

Allows you to approach the final concept of your design in the shortest space of time and least effort.



MOLDED DELRIN* PLASTIC CASES WITH MATING HEADERS (Polarized) AND MATING SOCKETS (Polarized)

Grey Color, Hi Impact cases suitable for circuits requiring encapsulation. Plastic will withstand 365° temp. or 185° F. continuous operation.

*Reg. TM by DuPont

Material is 1/16" thick Glass Epoxy MIL-P-18177B. Pins are Hollow Brass, Electro Tinned for easy soldering. They will accept a #20 size wire .200 spacing between pins.

Material is 1/16" thick Glass Epoxy MIL-P-18177B. Contacts are .012 thick Brass and Cadmium plated. Precision made to closest tolerances and mate with the headers perfectly.

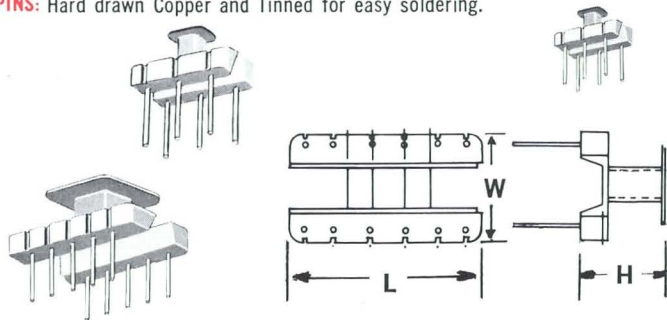
CASE CAT. NO.	W WIDTH	L LENGTH	H HEIGHT	HEADER CAT. NO.	W WIDTH	L LENGTH	S	P PINS EACH SIDE	SOCKET CAT. NO.	W	L	S	C No. of Contacts	Mtg. Holes M
4293	.359	.500	.405	4297	.300	.437	.187	2 & 1	4305	.500	.625	.187	2 & 1	Opposite Ends .390x437
4294	.562	.578	.578	4298	.500	.515	.187	2 & 1	4305	.500	.625	.187	2 & 1	
4295	.609	.859	.656	4299	.546	.781	.375	4 & 3	4307	.781	1.000	.375	4 & 3	.750
4296	.593	.984	.656	4300	.531	.937	.375	5 & 4	4308	.781	1.062	.375	5 & 4	.812
4289	.734	1.015	.531	4301	.687	.937	.500	5 & 4	4309	.922	1.062	.500	5 & 4	.812
4290	.734	1.015	.718	4301	.687	.937	.500	5 & 4	4309	.922	1.062	.500	5 & 4	.812
4291	.890	1.265	.843	4303	.843	1.203	.600	6 & 5	4311	1.062	1.421	.600	6 & 5	1.125
4292	1.250	1.687	1.281	4304	1.156	1.578	.812	7 & 6	4312	1.375	1.812	.812	7 & 6	1.500

PRINTED CIRCUIT TRANSFORMER BOBBINS

Bobbins mate with above Cases. No warpage. No loose or deformed Pins. Pins withstand double dip or iron soldering.

MATERIAL SPECS: Bobbins molded of Glass Reinforced (DAP) DIALLYL-PHYTHALATE MIL-T-27.

PINS: Hard drawn Copper and Tinned for easy soldering.



BOBBINS ONLY—Pin arrangements based on .050 centers or Multiples

CAT. NO.	H Height	L Length	W Width	No. Pins Each Side & Diam.	MATES WITH CASES
4313	.234	.438	.297	3 of .032	4293
4314	.439	.516	.500	3 of .032	4294
4315	.407	.781	.531	5 of .032	4295
4316	.407	.938	.531	6 of .032	4296
4317	.375	.938	.656	5 of .032	4289
4318	.547	.938	.656	5 of .032	4290
4319	.640	1.187	.812	5 of .047	4291
4320	.937	1.562	1.125	5 of .047	4292

*Printed Circuit Bobbins are covered by U.S. Patents 3,174,673 and 3,215,964 and Patents Pending.

PRINTED CIRCUIT TRANSFORMER KITS

A complete Packaged Kit consisting of Bobbin, Case and Ferrite Core.

Four Easy Steps to Complete and Assemble:

1. Wind Coil on Bobbin
2. Stack Ferrite
3. Dip or Iron Solder
4. Encapsulate



Parts May be purchased individually.

Complete Kit CAT. NO.	Case Only CAT. NO.	* Bobbin Only CAT. NO.	Ferrite Only CAT. NO.
4321	4293	4313	4330
4322	4295	4315	4331
4329	4296	4316	4331

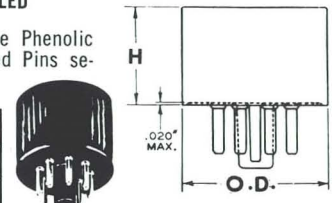
OCTAL TUBE BASE SHELLS

MATE WITH ALL STANDARD OCTAL SOCKETS

- ENCAPSULATE CIRCUITS—1001 USES
- CONSTRUCT TEST ADAPTERS
- LOW COST • COMPLETELY ASSEMBLED

Black Molded Shell of General Purpose Phenolic per MIL-M-14CFG. 8 Brass Nickel Plated Pins securely staked to shell.

CAT. NO.	H	O.D.
4515	.850	1.250
4516	1.070	1.350



HOUSINGS—BANANA PLUG AND JACK STRIPS



- Suitable for test adaptors, modules, filters, etc.
- Low resistance Beryllium Copper spring plugs

BANANA PLUG IN MODULES

- Shielded or molded hi-impact Butyrate cover
- Mates with all standard patch board plugs

BANANA PLUG SPRINGS: One piece Beryllium Copper per QQ-C-533 and heat treated to 15 N, 73-79.

PLUG BODY: Brass QQ-626 Comp. 22½ H; silver plated, MIL-P-14072 per QQ S-365.

BAKELITE: Black per MIL-P-3115C, TYPE PBE.

PLASTIC HOUSING: Molded of high impact clear Butyrate plastic will withstand temp. 210°F. Ample room for wiring or terminal board.

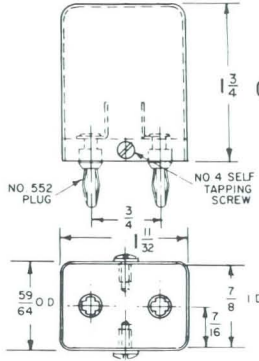
HEADER: Precision machined black bakelite which mounts flush to housing with self-tap screws. Solder lugs firmly staked to banana plugs.

ALUMINUM HOUSING: For circuits requiring shielding. Banana plugs attached to ¼" thick bakelite and staked to solder lugs. Hole for cable entry can be supplied at small additional charge.

MODIFICATIONS: We welcome the opportunity to quote on variations of standard items.

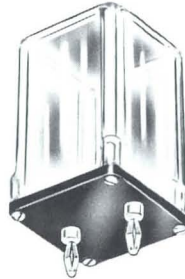
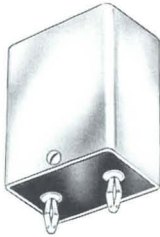
ALUMINUM SHELL

PLASTIC HOUSING



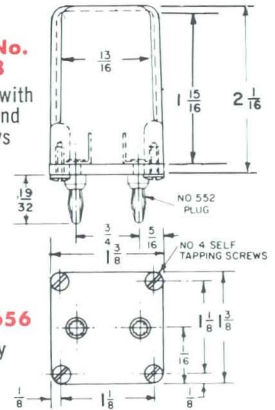
Cat. No. 659

Complete with header and 2 screws



Cat. No. 658

Complete with header and 4 screws



Cat. No. 656

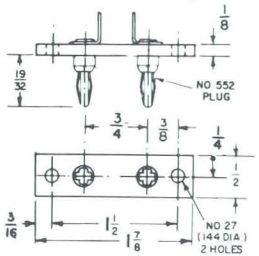
Header only

BANANA PLUG AND JACK STRIP

3/4" Centers—Mate with all Stack-Up Plugs

BANANA PLUG STRIP

Panel Mounting

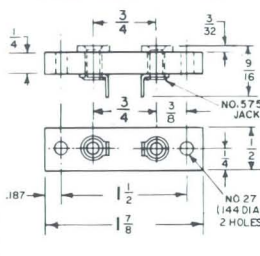


Cat. No. 651

A much needed accessory for patchcord boards and stack-up plugs. Low resistance banana plugs are spaced on ¾" centers, staked into ¼" thick black bakelite and solder lugs.

JACK STRIP

Panel Mount Jack Strip



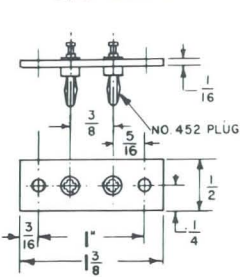
Cat. No. 653

These panel mounting strips mate with any ¾" spaced stack-up plug or individual patchcords. Silver plated jacks are staked into ¼" thick black bakelite with solder lugs. Multiples can be supplied in most instances without tooling or setup charges.

MINIATURE PLUGS AND JACK STRIPS

BANANA PLUG STRIP

3/8" Centers

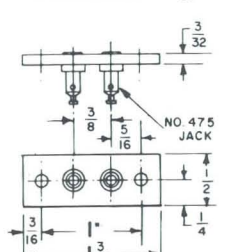


Cat. No. 654

Same high electrical and mechanical efficiency as the standard series. Plugs made of Beryllium Copper and silver plated for low resistance and positive contact.

JACK STRIP

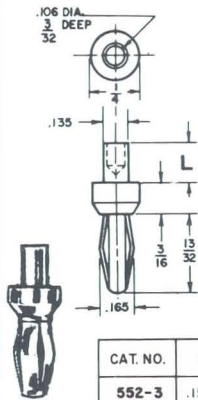
3/8" Centers
Panel Mounting



Cat. No. 655

Panel Mounting Ideal for use with miniature banana plug patchcord. Brass, silver plated jacks. Staked to 3/32" thk. black bakelite.

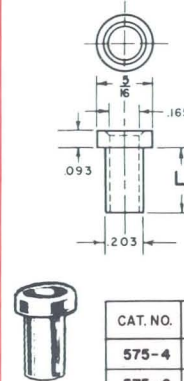
Cat. No. 552 PLUG



CAT. NO.	L
552-3	.156
552-4	.218

SPRING: Beryllium Copper
BODY: Brass, Silver Pl.

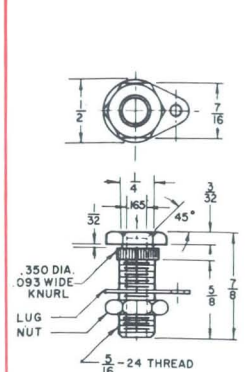
Cat. No. 575 JACK



CAT. NO.	L
575-4	.218
575-6	.265
575-8	.350

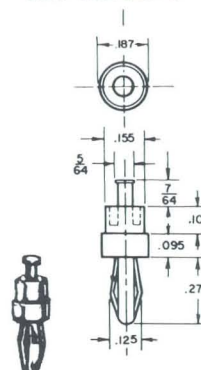
Brass, silver pl.

Cat. No. 675 JACK



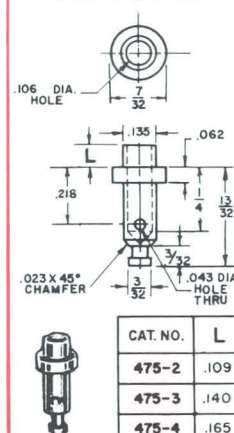
Brass, silver pl.

Cat. No. 452 PLUG



SPRING: Beryllium Copper
BODY: Brass, Silver Pl.

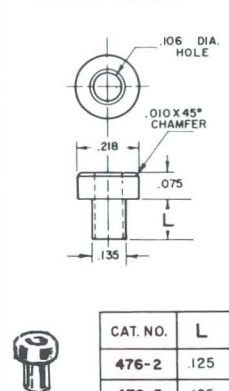
Cat. No. 475 JACK



CAT. NO.	L
475-2	.109
475-3	.140
475-4	.165

Brass, silver pl.

Cat. No. 476 JACK



CAT. NO.	L
476-2	.125
476-3	.165
476-4	.187

Brass, silver pl.

STANDARDIZED PLUG-IN METAL HOUSINGS—ALUMINUM AND STEEL



A variety of metal housings suitable for shielding electronic circuits.
PRE-FABRICATED • COMPACT • ECONOMICAL • EASY TO ASSEMBLE

ROUND ALUMINUM HOUSINGS

WITH OR WITHOUT HEADERS

.020 WALL DRAWN SEAMLESS CANS

CAUSTIC ETCHED FINISH—Aluminum Grade 1100, Fed. Spec. QQ-A-561.

Housing Complete with Header & Screws		Header Supplied	Housing & Cover Less Header		Dimensions		Terminal Board Specify	
CAT. NO.	Fig.		CAT. NO.	Fig.	D	H	CAT. NO.	Fig.
4350	1	7 Pin	*4361	4	.742	2	4450	12
4351	1	9 Pin	*4362	4	.793	2	4451	12
4352	1	Octal	*4363	4	1.218	2	4452	12
4353	1	Octal	*4364	4	1.218	2½	4453	12
4354	1	Octal	*4365	4	1.218	3	4454	12
4355	2	Octal	4366	5	1.453	2	4455	12
4356	2	Octal	4367	5	1.453	2½	4456	12
4357	2	Octal	4368	5	1.453	3	4457	12
4358	2	Octal	4369	5	2.100	2	4458	13
4359	2	Octal	4370	5	2.100	2½	4459	13
4360	2	Octal	4371	5	2.100	3	4460	13

* Base cover not required.

SQUARE & RECTANGULAR HOUSINGS

#4372-4373-4374 are Square Aluminum .020 wall, and caustic etched.

#4375 is a Square Steel can .019 wall, and Cadmium Plated.

#4376 is a Rectangular Steel can .031 wall, and Cadmium Plated.

Housing Complete with Octal Header & Screws		Material	Housing & Cover Less Header		Dimensions		Terminal Board Specify	
CAT. NO.	Fig.		CAT. NO.	Fig.	D - H		CAT. NO.	Fig.
4372	3	Alum.-Sq.	4377	6	1.750	2	4458	13
4373	3	Alum.-Sq.	4378	6	1.750	2½	4459	13
4374	3	Alum.-Sq.	4379	6	1.750	3	4460	13
4375	3	Steel Sq.	4380	6	1.670	2½	4459	13
4376	—	St'l Rect.	4381	—	2.078 x 2.297	3 ¾	4460	13

PLUG-IN HEADERS — 7 Pin, 9 Pin & Octal

Molded Thermosetting Black Plastic MIL-M-14CFG.

CAT. NO.	Fig.	Pin Configuration	Dimensions			Used in Fig.	Use Term. Bd. Type Fig.
			D	H	S		
4461	7	7 Pin	.605	.203	—	1	12
4462	8	9 Pin	.730	.218	—	1	12
4463	9	Octal	1.156	.281	—	1	12
4464	10	Octal	1.500	.312	—	2	12
4465	10	Octal	2.171	.312	1.600	2	13
4466	11	Octal	1.700	.255	1.600	3	13
4467	11	Octal	1.625	.255	1.600	3	13
4468	11	Octal	1.975x2.225x.255H	1.600	3	13	

TERMINAL BOARDS for Above

CAT. NO.	Fig.	Size W & H	PATTERN OF THESE BOARDS
4450	12	.593 x 1.50	KEYSTONE "G" PATTERN .100 Grid Alternates .062 diam. holes
4451	12	.625 x 1.50	
4452	12	1.125 x 1.59	
4453	12	1.125 x 2.0	
4454	12	1.125 x 2.50	
4455	12	1.375 x 1.50	
4456	12	1.375 x 2.0	KEYSTONE "A" PATTERN .265 x .265 C to C .093 diam. holes
4457	12	1.375 x 2.50	
4458	13	1.875 x 1.750	
4459	13	1.875 x 2.250	
4460	13	1.875 x 2.750	

SUPPLIED COMPLETE: Housing—Header and Screws

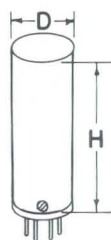


FIG. 1

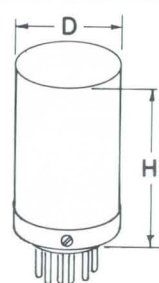
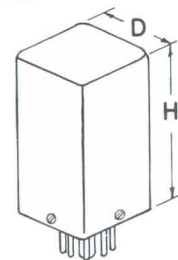


FIG. 2



OCTAL PLUG
FIG. 3

Base cover not required. Header slips into can. Insulated liner for inside of can is supplied.

Blank housings supplied with base cover. Holes punched .125 and accept #4 sheet metal screws.

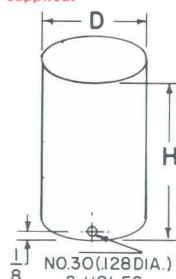


FIG. 4

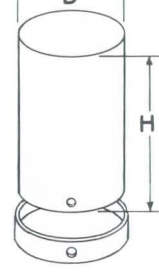


FIG. 5

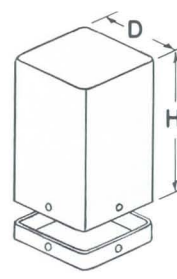


FIG. 6

MOLDED HEADERS



FIG. 7



FIG. 8

Octal Header staked to round aluminum cover.

Octal Header staked to square or rect. covers.

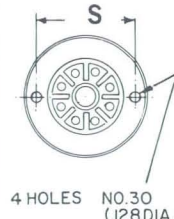


FIG. 9

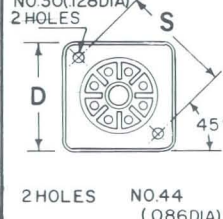


FIG. 10

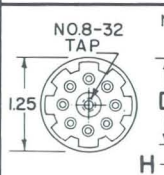


FIG. 9



FIG. 10

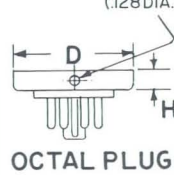


FIG. 10

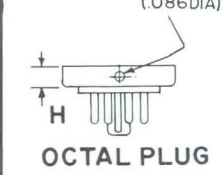


FIG. 11

Phenolic PBE grade terminal boards, used with Fig. 7, 8 & 9 Headers.

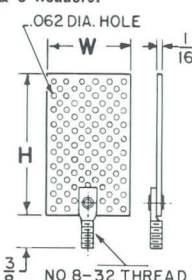


FIG. 12

Phenolic PBE grade terminal boards, used with Fig. 10 & 11 Headers. Useful for other applications.

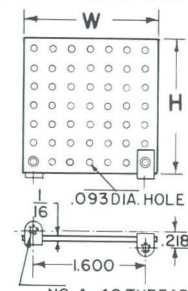


FIG. 13



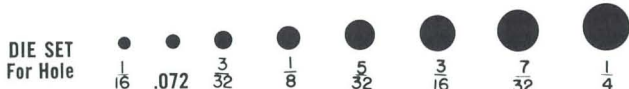
ALL-PURPOSE HAND PUNCH

for METAL, PLASTICS or MASONITE

- Equipped with Adjustable Gauge • 1/4" Depth of Throat
- Replace Innumerable Drill Press Operations

Uses: As a Nibbler — Shears Eyelets — Hole Punch for Sheet Material or Tubing.

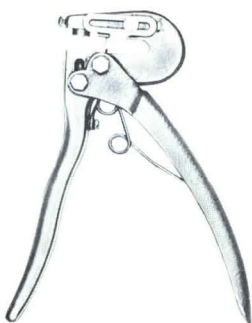
Anyone can punch sharp, burr-free holes in a variety of materials to 1/16" thick untempered metal, 3/32" phenolic, 1/4" masonite. Interchangeable die sets from 1/16" dia. in increments of 1/32" with largest die set of 1/4" diam. Punches tubing as small as 3/4" diam. Powerful leverage requires little effort to operate. Shears eyelets and leaves clear undamaged hole.



INDIVIDUAL DIE SETS

Consists of Top and Bottom Tool	
CAT. NO.	DIE SET For Hole
1331	1/16
1332	.072
1333	3/32
1334	1/8
1335	5/32
1336	3/16
1337	7/32
1338	1/4

HAND PUNCH ONLY CAT. NO. 1330



PHENOLIC INSTRUMENT BOXES

- For General Purpose Use
- Sturdy Construction
- .125 Thick Walls—Molded Glossy Black Phenolic MIL-M-14, CFG.

Your Choice of 5 Most Popular Boxes with Flush Mounting Aluminum or Phenolic Panels.

BOXES: Precision molded with rounded outside corners, and 6/32 x 3/16" deep threaded Brass inserts imbedded in each corner.

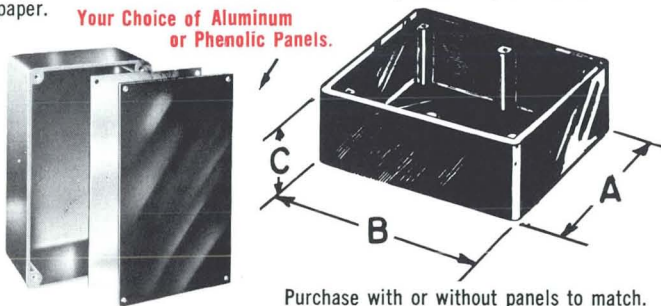
PANELS: Mount flush inside of Case, holes drilled in panel positioned for the inserts.

PHENOLIC PANEL: 3/32" thick glossy black MIL-P-3115 C.

ALUMINUM PANEL: .065 thick, #5052-H34 per QQ 318 C.

Bright finished surface covered with an easily removed pressure sensitive paper.

Your Choice of Aluminum or Phenolic Panels.



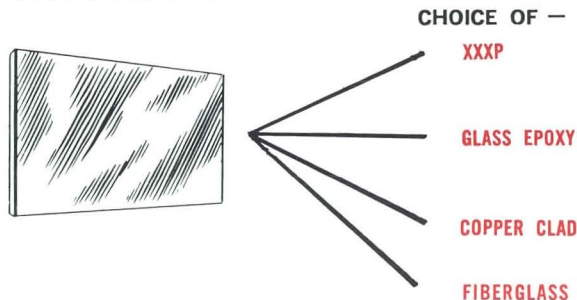
Purchase with or without panels to match.

Case Only CAT. NO.	A	B	C	Black Phenolic Panel Only CAT. NO.	Aluminum Panel Only CAT. NO.
* 703	2 7/8	3 1/8	1 1/8	2042	2044
* 704	3 1/8	5 7/8	2 1/4	2043	2045
700	3 3/4	6 1/4	2	2037	2046
701	5 1/4	6 3/4	2 5/8	2038	2047
702	7 3/8	8 3/8	3	2039	2048

* 703 and 704 has 4-40 tapped hole in each corner — no brass insert.

STANDARD LAMINATED PHENOLIC MATERIAL

- RANGE OF SIZES
- SPECIAL SIZES CUT TO ORDER
- CERTIFIED MATERIAL



The finest grade laminated phenolic sheets we use in our production fabrication are available to you in a range of standard sizes or special sizes cut to order; and in a variety of types.

NEMA GRADE XXXP-MIL-P-3115C, paper base electrical-color natural. Most commonly used for panels and terminal boards. Excellent electrical grade and dimensional stability. Max. operating temp. continuous 250 deg. F.

NEMA GRADE G-10, MIL-P-18177B-GEE, color green **GLASS CLOTH EPOXY**. Superior chemical resistance, excellent mechanical and electrical properties. Max. operating temp. continuous 300 deg. F.

COPPER CLAD LAMINATES, XXXP MIL-P-13949 TYPE PP and **GLASS EPOXY MIL-P-13949B TYPE FL-GE**, are used mainly for printed circuitry. The copper foil serves as the conductor and the laminate provides the insulating support. 2-ounce copper foil is laminated to one or both sides of the insulator. We catalog both types in XXXP and G-10.

Fiberglass Reinforced Polyester NEMA Grade.

GPO-1 with a class 155°C (300°F) rating. Color is tan. Excellent mechanical and electrical properties. Fabricates similar to phenolic and can be punched cold.

Size Width & Length	XXXP Natural	Glass Epoxy	XXXP Cop. Clad (1 Side)	XXXP Cop. Clad (2 Sides)	Glass Epoxy Cop. Clad (1 Side)	Glass Epoxy Cop. Clad (2 Sides)	Fiber-glass Polyester
1/16" THICK MATERIALS							
	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
5/16 x 7 1/8	2006	2022	—	—	—	—	2304
3/4 x 7 1/8	2020	2023	—	—	—	—	2305
1 x 7 1/8	2021	2024	—	—	—	—	2306
2 x 4 1/2	1970	1978	1985	1992	1999	2013	2307
2 1/4 x 3	1971	1979	1986	1993	2007	2014	2308
3 x 4 1/2	1972	1980	1987	1994	2008	2015	2309
4 1/2 x 6 1/2	1973	1981	1988	1995	2009	2016	2310
4 1/2 x 8 1/2	1974	1982	1989	1996	2010	2017	2311
8 1/2 x 17	1975	1983	1990	1997	2011	2018	2312
9 x 12	1976	1984	1991	1998	2012	2019	2313
3/32" THICK MATERIALS							
	Cat. No.	Cat. No.					Cat. No.
1/2 x 13 1/8	2025	2031					2314
1 1/8 x 13 1/8	2026	2032					2315
1 1/2 x 13 1/8	2027	2033					2316
2 x 13 1/8	2028	2034					2317
2 1/2 x 13 1/8	2029	2035					2318
3 x 13 1/8	2030	2036					2319

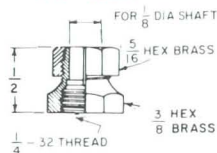
NOT SUPPLIED IN THESE TYPES

SHAFT LOCKS

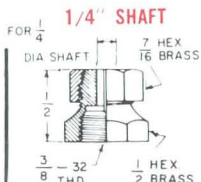
For 1/8" and 1/4" dia. shafts. Turn of nut, locks critical control settings securely. Made of BRASS per QQ-B-626, Comp. 22, 1, 2 hard and NICKEL PLATED per QQ-N-290.



1/8" SHAFT



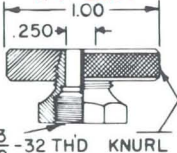
Cat. No. 1700



Cat. No. 1701



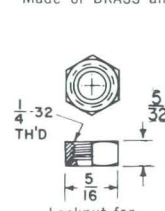
1/4" SHAFT



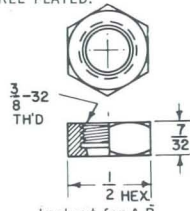
Cat. No. 1702

HEX LOCKNUTS (Internal Taper)

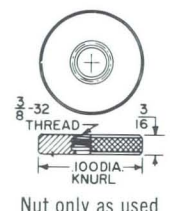
Provides dependable holding of critical control settings when nut is tightened. Made of BRASS and NICKEL PLATED.



Locknut for Miniature Controls
Cat. No. 1497



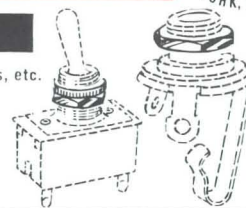
Locknut for A-B and Similar Controls
Cat. No. 1455



Nut only as used with 1702 Shaftlock
Cat. No. 1703

PRECISION MACHINED NUTS

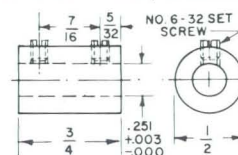
for Volume Controls, Switches, Capacitors, Tip Jacks, etc. Material: Brass All are Nickel Plated.



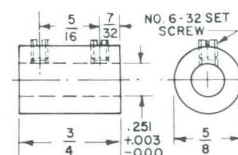
CAT. NO.	FOR	DIMENSIONS	MAT.
1449	Mini. Control	(1/4-32) x (5/16 Hex) x (5/64" thick)	Brass
1456	Vol. Control	(3/8-32) x (1/2 Hex) x (3/32" thick)	Brass
1489	Vol. Control	12-32 x (5/16 Hex) x (5/64" thick)	Brass
1458	Switch	(15-32) x (9/16 Hex) x (5/64" thick)	Brass
1459	Switch Ring	(15-32) x (5/8 Knurled) x (1/16" thick)	Brass
1471	Capacitor	(6-40) x (5/16 Hex) x (5/64" thick)	Brass
1472	Filter	(5/16-32) x (3/8 Hex) x (3/32" thick)	Brass
1473	Mini. Control	(10-32) x (1/4 Hex) x (3/32" thick)	Brass

1/4"-1/4" SHAFT COUPLINGS

Two set screws hold shaft securely. Made of BRASS and NICKEL PLATED, or BAKELITE.



Brass
Cat. No. 1453



Bakelite
Cat. No. 1470

DIODE MOUNTING BOARDS AND CLIPS

• STURDY • FIRM HOLDING

USES: For Germanium Diodes and Junction Rectifiers

• ECONOMICAL • TROUBLE-FREE

DIODE CLIPS: Made of Spring Tempered Phosphor Bronze MIL-B-892 available from stock either Cadmium or Silver plated.

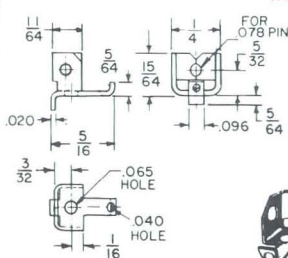
NOTE: Holders on this page are assembled with cadmium plated clips only.

Silver plated clips will be supplied on special order only at additional cost. Prompt quotations rendered.

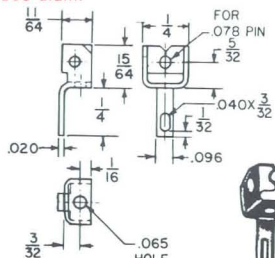
Standard diode clips offer a compact means for support and connection of crystal diodes. Diodes can be easily removed and re-inserted without increase of contact resistance. Will withstand shock and vibration.

MODIFICATIONS: Other materials of your choice supplied. Marking and other types of plating added.

For Germanium Diodes for leads from .065 to .105 diam.

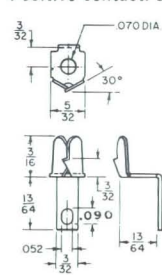


CAT. No. 1414 CP is Cadmium Plated.
CAT. No. 1414 SP is Silver Plated.



CAT. No. 1415 CP is Cadmium Plated.
CAT. No. 1415 SP is Silver Plated.

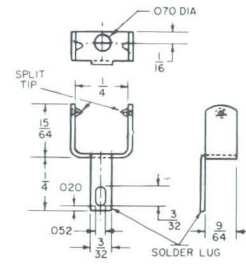
New "Y" Clip will firmly hold a wire in range of .010 to .050 diam. Positive contact. 3 types available.



CAT. No. 1409

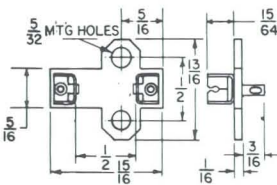


CAT. No. 1412

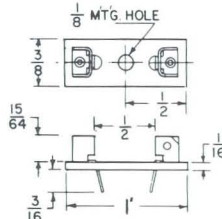


CAT. No. 1407

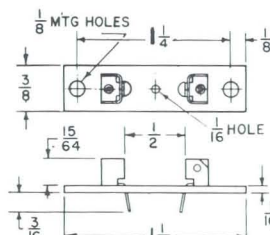
BAKELITE MATERIAL: 1/16" thick natural color bakelite grade PBE-P Mil Spec 3115B.



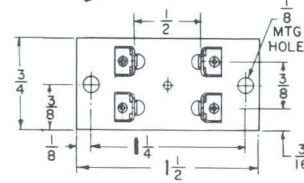
Board with 1415 CP clips (Bottom Solder Tab). Specify CAT. No. 1422.
Board with 1414 CP clips (on special order only).



Board with 1415 CP clips (Bottom Solder Tab). Specify CAT. No. 1420.
Board with 1414 CP clips (Top Solder Tab). Specify CAT. No. 1411.



Board with 1415 CP clips
Specify CAT. No. 1410



Board with 1415 CP clips (Bottom Solder Tab). Specify CAT. No. 1427.
Board with 1414 CP clips (Top Solder Tab). Specify CAT. No. 1417.

PHONO PLUGS AND JACKS - MIKE CONNECTORS

All have 1/8" diam. pins and mate with all standard phono jacks.

STANDARDIZED PHONO-PLUGS

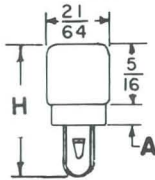
For Record Players—Recording and Reproducing Equipment.

<p>Conventional Type</p> <p>CAT. NO. 561</p>	<p>Finger Grip</p> <p>CAT. NO. 564</p>	<p>Strain Relief Lug Crimps to Wire Insulation</p> <p>CAT. NO. 565</p>	<p>Longer Skirt for Better Grip</p> <p>CAT. NO. 566</p>	<p>Crimp or Solder Type. Extra Long Handles</p> <p>CAT. NO. 567</p>
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STANDARDIZED PHONO JACKS AND MICROPHONE CONNECTORS



Rivet type—mounts in .296 diam. Hole.
Available for material 1/16, 3/32 or 1/8 thick
Mate with above 1/8" diam. Pins

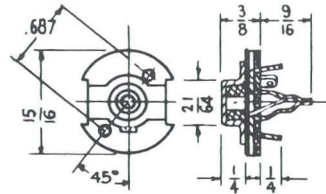


CAT. NO.	A	H	For Insulator
568	.078	.656	1/16"
569	.109	.812	3/32"
570	.140	.812	1/8"

The No. 562 Jack has the same construction as the No. 560 Phono Jack, but, in addition, has an extra element which permits a circuit to be broken simply by the insertion of a phono plug. Mounting holes are for 6-32 screws, 11/16 between centers. Top plate is grounded.



CAT. NO. 560
Phono Jack



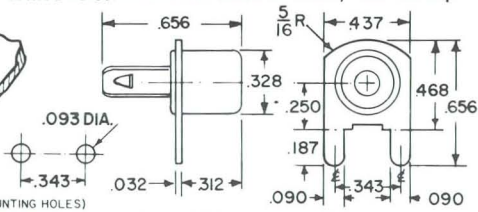
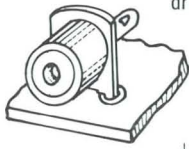
562

Phono Circuit Breaking Jack

CAT. NO. 562

PRINTED CIRCUIT PHONO JACK

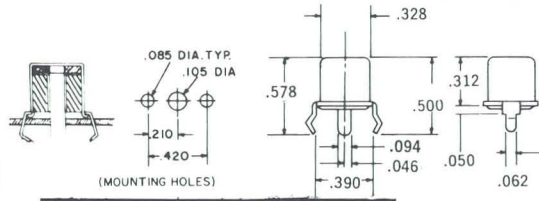
Mounted on bracket ready for insertion into pre-drilled holes. Bracket is made of Steel, Hot Tin Dip



CAT. NO. 571

PRINTED CIRCUIT PHONO JACK

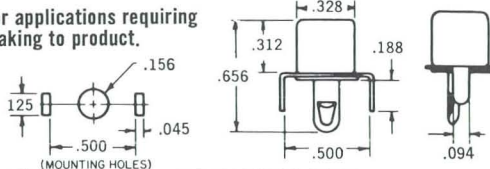
3 hole mounted—snaps into holes and firmly held. No staking required.



CAT. NO. 572

PRINTED CIRCUIT JACK

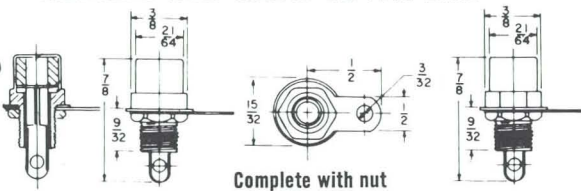
For applications requiring staking to product.



CAT. NO. 573

PANEL MOUNT JACK

AVAILABLE WITH ROUND OR HEX BASE

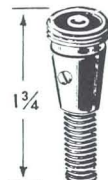


Complete with nut and solder lug.

CAT. NO. 574—Round Base type.

CAT. NO. 576—Hex Base type. Mounts on top of panel in .296 diam. hole.

MICROPHONE CONNECTOR



CAT. NO. 500
Male Connector

Designed for use with single conductor microphone cable with a max. diameter 3/16". Rugged Brass Body Nickel Plated, Steel Spring Cad. Pl., Coupling ring of the No. 509 has 5/8-27 thread and is removable. The No. 509 mates with No. 500 also our No. 505 & No. 507.



CAT. NO. 509
Female Connector

MALE CHASSIS CONNECTOR

Open Circuit Male

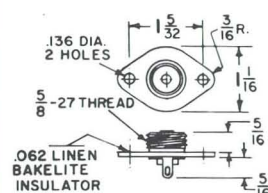
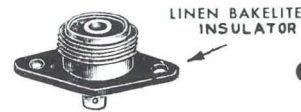


This microphone connector is used on chassis. Made of nickel plated brass. The thread is 5/8-27 and 3/8" hole required for mounting. Supplied with insulating washers, soldering lug and nut.

505 Male Chassis Connector

MALE CHASSIS CONNECTOR

Open Circuit Male



An open circuit type connector used on amplifiers or wherever the metal section of the connector must be isolated from the metal chassis. The brass nickel plated connector is staked to a linen bakelite plate and is threaded 5/8-27 which accommodates standard female mike connections.

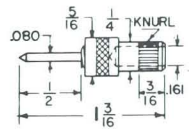
CAT. NO. 507 Male Chassis Connector

TEST PRODS AND TIPS

SOLDERLESS PHONE TIPS



Cat. No. 1680—Junior

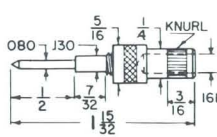


FORCE-FIT TYPE
(knurled end)

The Junior and Senior Tips are machined of brass and nickel plated. They are easily attached to a wire without soldering. A tightening of the knurled nut is all that is necessary to grip and hold the wire tightly.



Cat. No. 1690—Senior



Metal Tip only

1/4-32 (threaded end)

Handle and tip

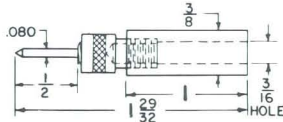
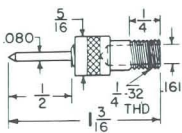
Junior Solderless



Cat. No. 1681—Junior

Cat. No. 1670—RED

Cat. No. 1671 BLACK



1/4-32 (threaded end)

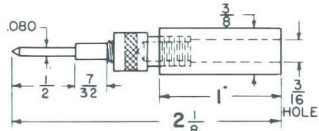
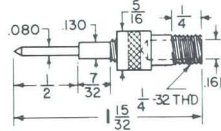
Senior Solderless



Cat. No. 1691—Senior

Cat. No. 1660—RED

Cat. No. 1661—BLACK



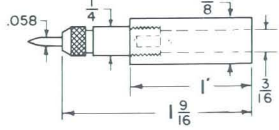
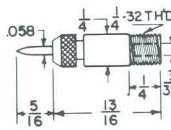
PHONO NEEDLE CHUCK TIP



Chuck is removable for easy replacement. Needle pierces plating or corrosion for positive reading.



Cat. No. 3014



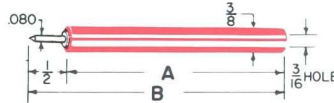
Cat. No. 3015
RED handle and tip

Cat. No. 3016
BLACK handle and tip

STANDARDIZED TEST PROD HANDLES

Fig. 1

Handle—with tip # 3022-20



HANDLES: Are molded butyrate, Mil-L-P 349A type 3, class MS

Fig. 2

Handle—with tip # 1691

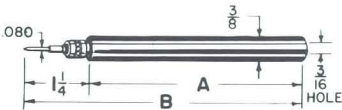


Fig. 3

Handle—with tip # 3014

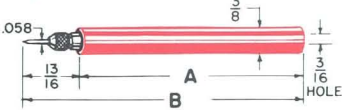
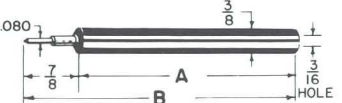


Fig. 4

Handle—with tip # 3021



Cat. No.	Fig. No.	Handles Only Color	"A" Dim. Inches	"B" Overall Length Inches
1840	2	Red	4	5 1/4
1841	2	Black	4	5 1/4
1842	2	Red	5 1/2	6 3/4
1843	2	Black	5 1/2	6 3/4
1849	3	Red	4	4 7/8
1850	3	Black	4	4 7/8
1851	3	Red	5 1/2	6 1/4
1852	3	Black	5 1/2	6 1/4
1860	4	Red	4	4 7/8
1861	4	Black	4	4 7/8
1862	4	Red	5 1/2	6 3/8
1863	4	Black	5 1/2	6 3/8
1898	1	Red	4	4 1/2
1900	1	Black	4	4 1/2

OTHER TIPS AND HANDLE COMBINATIONS AVAILABLE UPON REQUEST

TIPS: BRASS MIL SPEC. QQ-B-626A COMP. 22-1/2 HARD. NICKEL PLATED

RATING: 12 Amps AC for 10°C Temp. rise, continuous duty.

HANDLE: Molded plastic in colors RED or BLACK MIL-P-14 CFG, 3/8" O.D. x 3/16" I.D.

STREAMLINE PHONE TIPS



nickel plated brass with exceptionally large well for soldering, threaded for easy assembly in handle. Fits standard phone tip jack.

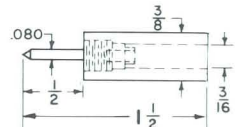
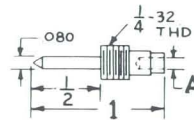


no metal exposed

Cat. No.	A
3022-12	.128
3022-20	.093

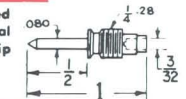
Cat. No. 1615 Handle Red

Cat. No. 1616 Handle Black



These phone tips are designed to be threaded into insulating handles. A minimum of metal is exposed when inserted into a phone tip jack. Connection is made by soldering.

Cat. No. 3020

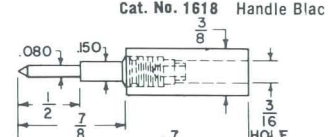
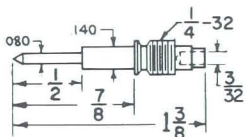


Cat. No. 3021



Cat. No. 1617 Handle Red

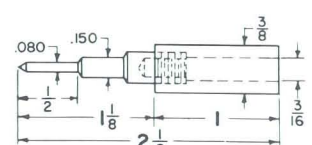
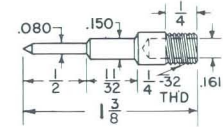
Cat. No. 1618 Handle Black



HEAVY DUTY TEST PRODS



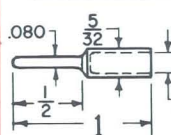
Cat. No. 3019



Cat. No. 3018

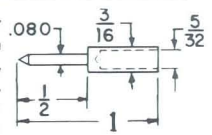
Specify: RED or BLACK

STANDARD PHONE TIPS



Cat. No. 1600

The ideal replacement tip for headset, speaker or extension cords. The tip is 1" long, brass, nickel plated. The No. 1601 Phone Tip is made to accommodate heavier wire than that of standard phone tips.

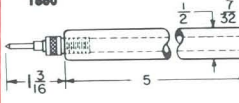


Cat. No. 1601

INDUSTRIAL TEST PRODS 1/2" DIA.

1/2" DIA. RED AND BLACK ETHYL CELLULOSE

Handle—with tip # 1691



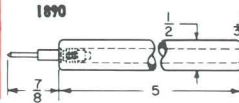
A very heavy and rugged test prod ideally suited for the electrical appliance, motor trade and wherever water, oils, grease, acid or alkalis are encountered. Available in black or red Ethyl Cellulose with standardized solderless or Streamline Sr. phone tips which thread into the handles.

CAT NO. Specify: RED or BLACK LENGTH

1880 Red Sr. Solderless tip 5"

1880 Black Sr. Solderless tip 5"

Handle—with tip # 3021



1890 Red Sr. Streamline Tip 5"

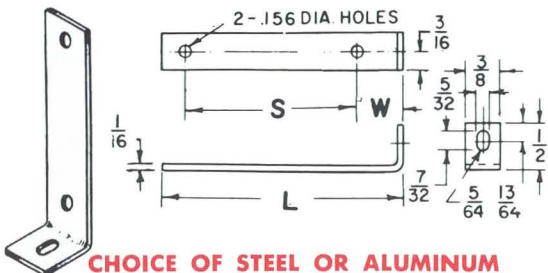
1890 Black Sr. Streamline tip 5"

STANDARDIZED BRACKETS

AVAILABLE FROM STOCK

BRACKETS FOR STANDARDIZED BOARDS

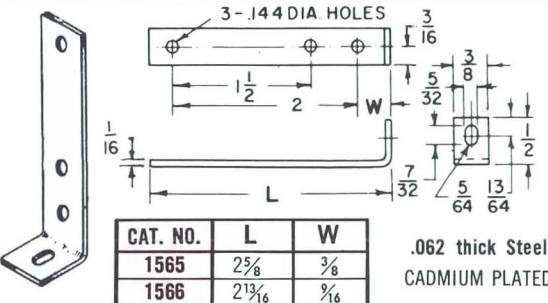
Originally designed for our line of standardized terminal boards; these brackets will find many uses for a variety of applications. Available in both steel with cad. plate finish or aluminum.



CHOICE OF STEEL OR ALUMINUM

.062 thick Steel — Per Mil Spec. QQ-S 633 B Grade FS-1010 cadmium plated per QQ P-416 A Type II, Class B.
.062 thick Aluminum — Per QQ-A-318.

Cat. No.	Steel	Alum.	W	L	S	FOR BOARDS	
						Cat. Nos.	
1556	622	3/8	1 5/8	1	15032	15072	15092
1567	623	3/8	2 1/8	1 1/2	15033	15073	15093
1568	624	3/8	2 5/8	2	15034	15074	15094
1569	625	3/8	3 1/8	2 1/2	15035	15075	15095
1570	626	9/32	1 3/16	3/4	15022	15024	15030
1571	627	9/32	1 5/8	1 1/16	15036	15076	15096

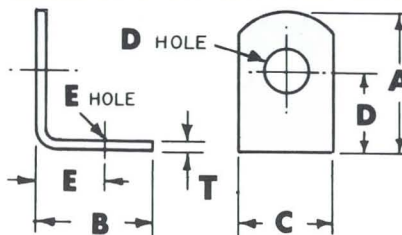
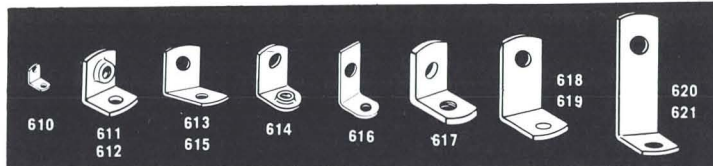


CAT. NO.	L	W
1565	2 5/8	3/8
1566	2 13/16	9/16

.062 thick Steel
CADMIUM PLATED

UNIVERSAL BRACKETS

A wide range of Brackets for many uses and for your particular applications. Available from stock—Made of approved materials and platings.



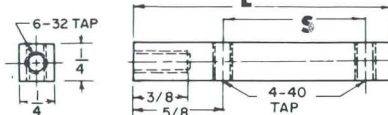
STANDARD BRACKETS
(Brass and Steel)

A choice of either brass and steel made to exacting specifications and Mil Spec finishes.

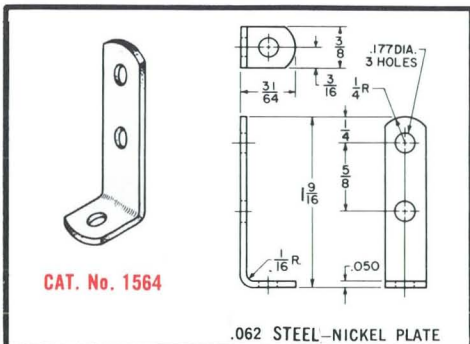
Key-stone Cat. No.	A	B	C	D	D Hole Dia.	E	E Hole Dia.	T	Material	Finish
610	.171	.171	.125	.109	.067	.109	.067	.018	Brass	Hot Tin
611	.375	.422	.312	.234	.135	.250	8-32 Tap.	.037	Brass	Cad. Pl.
612	.343	.375	.250	.203	.128	.250	4-40 Tap.	.062	Steel	Cad. Pl.
613	.390	.453	.375	.234	.147	.299	.128	.032	Brass	N. P.
614	.406	.343	.312	.281	.144	.187	6-32 Tap.	.032	Brass	Cad. Pl.
615	.437	.343	.281	.281	.144	.203	.125	.032	Brass	Cad. Pl.
616	.453	.312	.250	.265	.136	.187	4-40 Tap.	.046	Brass	Cad. Pl.
617	.578	.500	.500	.328	.156	.299	6-32 Tap.	.032	Steel	Cad. Pl.
618	.628	.628	.375	.378	.169	.378	.169	.050	Brass	N. P.
619	.687	.687	.375	.500	.144	.500	.144	.032	Steel	N. P.
620	1.156	.656	.375	.906	.169	.406	.169	.032	Steel	Hot Tin
621	1.125	1.125	.375	.875	.169	.875	.169	.062	Steel	Cad. Pl.

TERMINAL BOARD SUPPORT

A sturdy support for mounting of standardized terminal boards. Brass, cad. plate and chromate.



Cat. No.	Overall Length "L"	Spacing "S"
1647	2 3/8	1 1/2
1648	2 7/8	2
1649	3 3/8	2 1/2

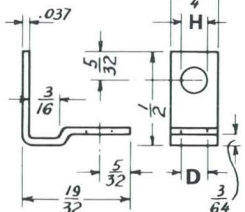


CAT. No. 1564

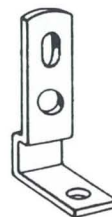
.062 STEEL-NICKEL PLATE



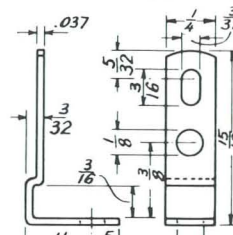
CAT. No. 628



.037 STEEL, CAD. PL.
H. .144 D .135



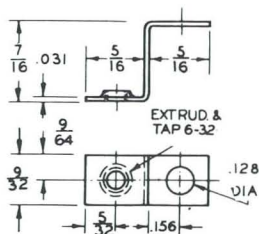
CAT. No. 629



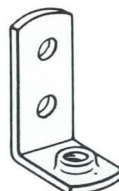
.037 STEEL, CAD. PL.
H. .125



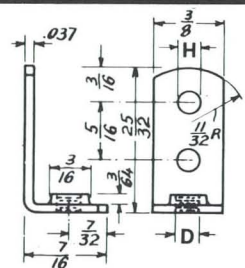
CAT. No. 630



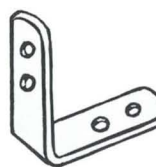
.031 BRASS, CAD. PL.



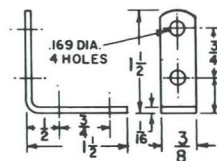
CAT. No. 631



.037 STEEL, CAD. PL.
H. .136 D tapped 8/32



CAT. No. 633



.062 STEEL-CADMIUM PLATE

ALIGNMENT TOOLS



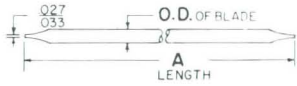
PRECISION MACHINED FIBERGLASS TOOLS (F.R.P.)*

Non-Metallic, Hi-Dielectric, Metal-like Tensile Strength.
Worn ends easily resharpened with file or grinder.

"LONG STRETCH" TV ALIGNERS

Machined of Fiberglass Reinforced Polyester which is hard, tough, low capacitance and the ideal material for durability and rough usage.

NO METAL
DUAL SCREWDRIVER ENDS



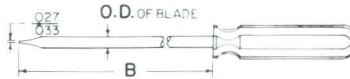
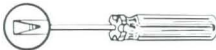
*Resin Bonded Fiberglass Filaments

Cat. No.	O.D. of BLADE	"A" LENGTH (inches)
3302	1/8"	7
3303	Diam.	12
3304	Diam.	16
3305	5/32"	7
3306	Diam.	12
3307	Diam.	16
3308	7/32"	7
3309	Diam.	12
3310	Diam.	16

MOLDED HANDLE with F.R.P.* BLADE

Handles are Fluted—Non-Slip Grip
—.575 O.D. x 2 3/8" long.

NO METAL — Fully Insulated



Cat. No.	O.D. of BLADE	"B" LENGTH (inches)
3311	1/8"	6
3312	Diam.	11
3313	Diam.	15
3314	5/32"	6
3315	Diam.	11
3316	Diam.	15
3317	7/32"	6
3318	Diam.	11
3319	Diam.	15

TURRET TUNER TOOL (No Metal)

F.R.P.* blade with slim end for easy access into holes of TV Tuners.



Cat. No. 3320

"BIG STRETCH" ALIGNER (with F.R.P.* blade)

Designed for adjustment of deep nested iron cores and TV front ends. Extra thin blade made of F.R.P. Worn ends can be resharpened. Steel cross pin at other end.



Cat. No. 3332

"SHORTY" STUD DRIVER

Metal nib for #6 stud is insulated and recessed. For IF and RF shielded coils and trimmers.



Cat. No. 3330

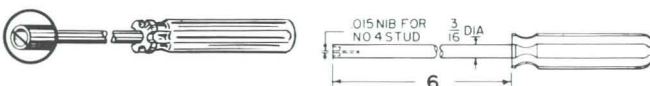
"SHORTY" tool with internal slot For milled end cores of coils & trimmers.



Cat. No. 3331

"SLIM" ALIGNER (for #4 studs)

Thin recessed nib is insulated and will not cause shorting against metal cases. Low Loss Butyrate plastic blade firmly seated into molded Grip-Tite handle.



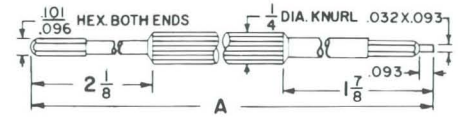
Cat. No. 3327

MOLDED HI IMPACT DELRIN PLASTIC TOOLS

Low Capacitance — Highest Quality — Most Popular Types

Standardized Aligners Available 5 1/8" or 10 5/8" long.

.094 Hex on both ends with Non Metallic screwdriver blade molded to one end of the Hex.



Cat. No. 3334

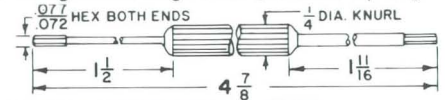
"A" Dimension is 5 1/8" long overall

Cat. No. 3338

"A" Dimension is 10 5/8" long overall

DUAL PURPOSE ALIGNER .075 HEX EACH END

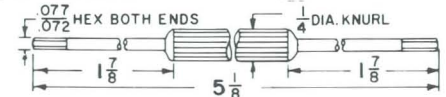
One end is undercut for tuning bottom slug. Other end tunes top slug.



Cat. No. 3335

.075 HEX ENDS

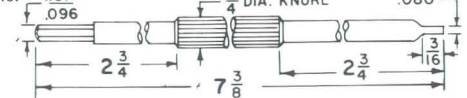
Molded to 3/32" dia. Shaft for Added Strength



Cat. No. 3336

COMBINATION "J" and "K" TRANSF'R. ALIGNER

One end is .094 Hex for "J" type transf. Other end is a slot driver for "K" transf. and I.F. Coils.



Cat. No. 3337

MOLDED NYLON TOOL for "J" Transformers

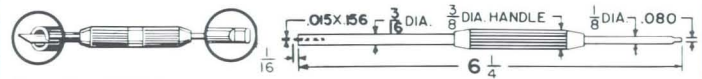
5 1/8" overall length, for tuning threaded hex core of I.F.'s as used in most TV sets.



Cat. No. 3323

ALIGNING TOOL for "K" Transformers

For K' Transformers and Peanut I.F. coils.

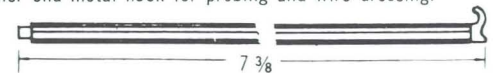


Cat. No. 3326

WIRE DRESSER & ALIGNER

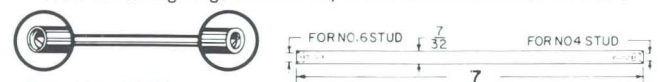
HANDLE: Butyrate Plastic, with knurled surface for sure grip. One end has screwdriver nib, other end metal hook for probing and wire dressing.

Cat. No. 3321



RECESSED SCREWDRIVERS (for #4 & #6 studs)

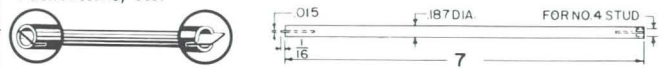
Ideal for tuning slugs and non-slip driver that fits over screw head.



Cat. No. 3322

GENERAL PURPOSE ALIGNER

HANDLE: Butyrate Plastic with knurled surface for iron core I.F.'s, R.F. coils, Pushbuttons, etc.

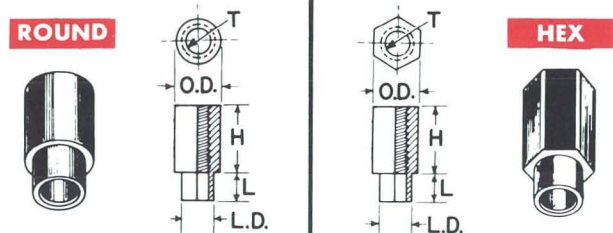


Cat. No. 3325

STANDARDIZED BUSHINGS - SPACERS - STANDOFFS

MATERIAL: ALL HARDWARE ON THIS PAGE IS MADE OF: BRASS MIL SPEC. QQ-B-626A COMP. 22-1/2 HARD.

SWAGE TYPE THREADED STANDOFFS



ROUND
Nickel Plate Mil-F-14072 QQ-N-290
Type VII

HEX
Cadmium plate per QQ-P-416
Type 2 Class B & clear chromate.

ROUND Nickel Plated Cat. No.	H Height Above Panel	L	For Panel Thickness	LD	OD	T Thread	HEX Cadmium Plated Cat. No.
1589-2	1/8	.109	1/16	.125	5/32	2-56	—
1589-3	1/8	.140	3/32	.125	5/32	2-56	—
1590-2	3/16	.109	1/16	.125	5/32	2-56	—
1590-3	3/16	.140	3/32	.125	5/32	2-56	—
1591-2	1/4	.109	1/16	.125	5/32	2-56	—
1591-3	1/4	.140	3/32	.125	5/32	2-56	—
1596-2	3/8	.109	1/16	.125	5/32	2-56	—
1596-3	3/8	.140	3/32	.125	5/32	2-56	—
1560 A	1/8	.109	1/16	.187	1/4	4-40	1653-2
1560-F	1/8	.140	3/32	.187	1/4	4-40	1653-3
1650-2	1/4	.109	1/16	.187	1/4	4-40	1627-2
1650-3	1/4	.140	3/32	.187	1/4	4-40	1627-3
1651-2	3/8	.109	1/16	.187	1/4	4-40	1628-2
1651-3	3/8	.140	3/32	.187	1/4	4-40	1628-3
1623-2	1/2	.109	1/16	.187	1/4	4-40	1629-2
1623-3	1/2	.140	3/32	.187	1/4	4-40	1629-3
1624-2	5/8	.109	1/16	.187	1/4	4-40	1654-2
1624-3	5/8	.140	3/32	.187	1/4	4-40	1654-3
1625-2	3/4	.109	1/16	.187	1/4	4-40	1655-2
1625-3	3/4	.140	3/32	.187	1/4	4-40	1655-3
1652-2	1	.109	1/16	.187	1/4	4-40	1630-2
1652-3	1	.140	3/32	.187	1/4	4-40	1630-3
1560 B	1/8	.109	1/16	.187	1/4	6-32	1620-2
1560 C	1/8	.140	3/32	.187	1/4	6-32	1620-3
1560 D	1/8	.171	1/8	.187	1/4	6-32	1620-4
1612-2	3/16	.109	1/16	.187	1/4	6-32	—
1612-3	3/16	.140	3/32	.187	1/4	6-32	—
1612-4	3/16	.171	1/8	.187	1/4	6-32	—
1546	1/4	.109	1/16	.187	1/4	6-32	1621-2
1546 B	1/4	.140	3/32	.187	1/4	6-32	1621-3
1546 D	1/4	.171	1/8	.187	1/4	6-32	1621-4
1561 B	3/8	.109	1/16	.187	1/4	6-32	1622-2
1561 C	3/8	.140	3/32	.187	1/4	6-32	1622-3
1561 D	3/8	.171	1/8	.187	1/4	6-32	1622-4
1604-2	1/2	.109	1/16	.187	1/4	6-32	—
1604-3	1/2	.140	3/32	.187	1/4	6-32	—
1604-4	1/2	.171	1/8	.187	1/4	6-32	—
1605-2	5/8	.109	1/16	.187	1/4	6-32	—
1605-3	5/8	.140	3/32	.187	1/4	6-32	—
1605-4	5/8	.171	1/8	.187	1/4	6-32	—
1608-2	3/4	.109	1/16	.187	1/4	6-32	—
1608-3	3/4	.140	3/32	.187	1/4	6-32	—
1608-4	3/4	.171	1/8	.187	1/4	6-32	—
1609-2	1	.109	1/16	.187	1/4	6-32	—
1609-3	1	.140	3/32	.187	1/4	6-32	—
1609-4	1	.171	1/8	.187	1/4	6-32	—

STAKING TOOLS FOR ABOVE STAND-OFFS

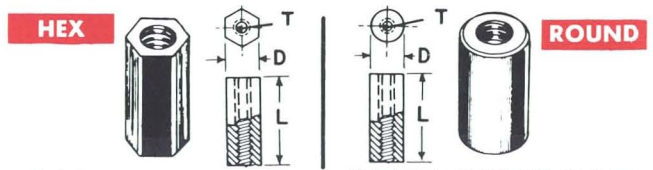
Precision made tools—heat treated and plated. Will give your job the professional appearance. Set of tools consist of: Top Staking Tool and Anvil. See page 36 for other tools.



CAT. NO.	Description
TL-19	For Bushing 5/32 OD with 2-56 Thd.
TL-20	For Bushing 1/4 OD with 4-40 Thd.
TL-21	For Bushing 1/4 OD with 6-32 Thd.

THREADED SPACERS

Threaded spacers 1/4" O.D. threaded 4-40, 6-32, 8-32 available either in round or hex. Round type is nickel plated, hex type is cadmium.



HEX
Cadmium plate per QQ-P-416
Type 2 Class B & clear chromate.

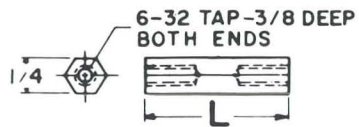
ROUND
Nickel Plate Mil-F-14072 QQ-N-290
Type VII

HEX Cadmium Plated Cat. No.	D	L	T Thread	ROUND Nickel Plated Cat. No.
1450	3/16	1/4	4-40	1547
1656	3/16	1/2	4-40	1657
1656A	3/16	3/4	4-40	1657A
1656B	3/16	1	4-40	1657B
1450A	1/4	1/4	4-40	1547A
1450B	1/4	3/8	4-40	1547B
1450C	1/4	1/2	4-40	1547C
1450D	1/4	3/4	4-40	1547D
1450E	1/4	1	4-40	1547E
1451A	1/4	1/4	6-32	1548A
1451B	1/4	3/8	6-32	1548B
1451C	1/4	1/2	6-32	1548C
1451D	1/4	5/8	6-32	1548D
1451E	1/4	3/4	6-32	1548E
1635	1/4	1	6-32	1548F
1474A	1/4	1/4	8-32	1692A
1474B	1/4	3/8	8-32	1692B
1474C	1/4	1/2	8-32	1692C
1474D	1/4	3/4	8-32	1692D
1474E	1/4	1	8-32	1692E
1452A	3/8	3/8	8-32	1549A
1452B	3/8	1/2	8-32	1549B
1452C	3/8	5/8	8-32	1549C
1452D	3/8	3/4	8-32	1549D
1452E	3/8	1	8-32	1549E

HEX SPACERS 6-32 TAPPED BOTH ENDS

Extra long length spacers ideal as standoff legs for Keystone pre-punched boards or your special application. Brass cad. plated and chromate.

Cadmium plate per QQ-P-416 Type 2 Class B & clear chromate.

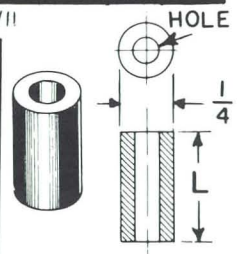


CAT. NO.	Length
1635	1
1636	1 1/4
1637	1 1/2
1638	1 3/4
1639	2
1642	2 1/4
1643	2 1/2

ROUND BRASS SPACERS

FINISHES: Nickel Plate Mil-F-14072 QQ-N-290 Type VII

L Length Inches	For #4 Screw .120 Hole Cat. No.	For #6 Screw .140 Hole Cat. No.	For #8 Screw .171 Hole Cat. No.
1/4	1454A	1457A	1480
3/8	1454B	1457B	1481
1/2	1454C	1457C	1482
3/4	1454D	1457D	1483
1	1454E	1457E	1484

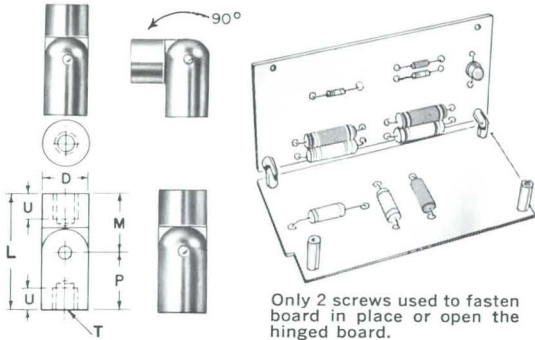


STANDARDIZED BUSHINGS - SPACERS - STANDOFFS



HINGED STANDOFFS FOR TERMINAL BOARDS

APPLICATIONS UNLIMITED • TIME SAVING • CUT COST OF SERVICING • SPACE SAVER
INTERCONNECT CIRCUITS OR SERVICES WITHOUT DANGER OF SHORTING • WIRING EXPOSED FOR EASY TEST



Only 2 screws used to fasten board in place or open the hinged board.

These standoffs mount at front of the board.

STANDOFF ONLY For Front of Board	
CAT. NO.	L LENGTH
1657A	.750
1657B	1.0
1548E	.750
1548F	1.0
1692D	.750
1692E	1.0

MATERIAL: MADE OF: BRASS MIL SPEC. QQ-B-626A COMP. 22-1/2 HARD.
FINISH: Cadmium Plate per QQ-P-416 Class 2, Type 2 and gold Iridite

These standoffs mount at front of the board.

HINGE						STANDOFF ONLY For Front of Board CAT. NO.
CAT. NO.	T THREAD	L LENGTH	D DIAM.	S	P	
357	4-40	1/2	.187	1/4	1/4	1657
358	6-32	1/2	.250	5/16	1/4	1548C
359	8-32	1/2	.250	5/16	1/4	1692C

HINGE						
CAT. NO.	T THREAD	D DIAM.	L LENGTH	U	M	P
351	4-40	.187	3/4	.172	.375	.375
352	4-40	.187	1	.250	.375	.625
353	6-32	.250	3/4	.172	.375	.375
354	6-32	.250	1	.250	.375	.625
355	8-32	.250	3/4	.172	.375	.375
356	8-32	.250	1	.250	.375	.625

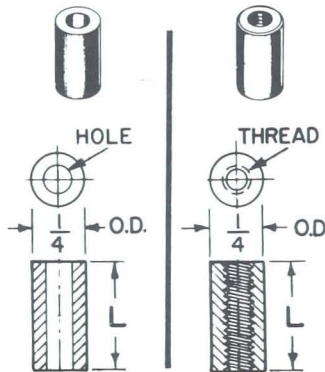
PHENOLIC SPACERS

- RESISTS ABRASIONS & CHEMICALS
- LOW MOISTURE ABSORPTION
- EXCELLENT DIELECTRIC
- GOOD MECHANICAL STRENGTH

MATERIAL:

PBE Grade Natural Color Phenolic —
Special Sizes Made to Order — Promptly Quoted

SPACERS — DRILLED HOLE ONLY			
Length Inches	For #4 Screw .120 Hole CAT. NO.	For #6 Screw .140 Hole CAT. NO.	For #8 Screw .171 Hole CAT. NO.
1/4 (.250)	360	367	1490
3/8 (.375)	361	368	1491
1/2 (.500)	362	369	1492
3/4 (.750)	363	370	1493
1 (1.000)	364	371	1494
1 1/2 (1.500)	365	372	374
2 (2.000)	366	373	375



SPACERS — WITH TAPPED HOLE			
Length Inches	4-40 Thread CAT. NO.	6-32 Thread CAT. NO.	8-32 Thread CAT. NO.
1/4 (.250)	376	383	390
3/8 (.375)	377	384	391
1/2 (.500)	378	385	392
3/4 (.750)	379	386	393
1 (1.000)	380	387	394
1 1/2 (1.500)	381	388	395
2 (2.000)	382	389	396

1.500 and 2" are tapped 3/8" deep each end

ALUMINUM ECONOMY SPACERS FOR No. 4, 6 or 8 SCREWS



• PRECISION FORMED • NO BURRS
Made of flat strip aluminum and rolled on precision equipment. Assures maximum bearing surface, square ends.

Description and Tol.

SPACER FOR	I.D. Plus Minus .005	O.D. Plus Minus .007
#4	.125	.167
#6	.151	.193
#8	.178	.232

Aluminum — Per 5052-H34 per QQ 318 C

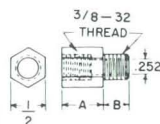
L Length	For No. 4			For No. 6			For No. 8		
	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	
3/16	397	—	—	418	425	432	418	425	432
1/4	398	405	412	419	426	433	419	426	433
5/16	399	406	413	420	427	434	420	427	434
3/8	400	407	414	421	428	435	421	428	435
7/16	401	408	415	422	429	436	422	429	436
1/2	402	409	416	423	430	437	423	430	437
5/8	403	410	417	—	—	—	—	—	—

BUSHING EXTENDERS

For 1/4" volume control shafts having 3/8-32 threaded bushings. Made of BRASS and NICKEL PLATED.

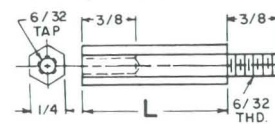


CAT. NO.	A	B
1464	5/8	1/4
1465	5/8	3/8
1466	11/16	1/2
1467	3/4	1/4



HEX STANDOFF

Internal tapped 6-32 x 3/8" deep one end, 6-32 x 3/8" long thread other end. Brass, cad. plate and chromate.



Cat. No.	Length
1644	1
1645	1 1/2
1646	2

EYELETS – PINS – CONTACTS

FUNNEL FLANGE and WIDE ROLL EYELETS

Available in standard packages of 100 or 1000 pieces.

- PRECISION MADE
- SOLDERABILITY RETAINED INDEFINITELY
- LOW COST
- FROM STOCK

Highest engineering standards maintained to produce these eyelets to uniform dimensions. Guaranteed to be within listed tolerances. A choice of most popular sizes in general use for Electronic circuitry.

MATERIAL: Made of BRASS

PLATING: HOT DIP SOLDER finish, MIL-F-14072. Recommended for longer shelf life and better solderability. Other platings can be furnished.

WIDE ROLL

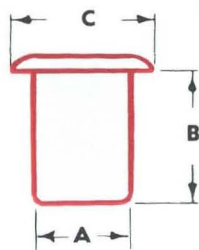


TOLERANCES:

A Plus or Minus .003.

B Plus or Minus .008

C Plus or Minus .005



FUNNEL FLANGE



STAKING TOOLS AVAILABLE FOR ALL EYELETS — SEE PAGE 36.

WIDE ROLL EYELETS

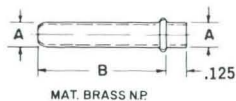
Cat. No.	A Outside Diameter Barrel	B Length Under Flange	C Flange Diameter	Hole Size of Material to be Eyeleted	For Board Thickness
22		.062			1/32
23	All Are	.093			1/16
24	.059 dia.	.125	All Are	.062 (1/16")	3/32
25		.156			1/8
26		.187		Use Drill #52	—
27		.219			—
33		.093			1/16
34	All Are	.125	All Are	.093 (3/32")	3/32
35	.089 dia.	.156	.150 dia.		1/8
36		.187		Use Drill #42	—
37		.219			—
43		.093			1/16
44	All Are	.125	All Are	.125 (1/8")	3/32
45	.121 dia.	.156	.200 dia.		1/8
46		.187			—
47		.219		Use Drill #30	—
48		.250			—

FUNNEL FLANGE EYELETS for Printed Circuit Boards

49	All Are	.062	All Are	.067 dia.	1/32
50	.059 dia.	.093	.095 dia.	Use Drill #51	1/16
51		.125			3/32
52		.156			1/8

PINS AND MATING SOCKET CONTACTS

Pins for 3/32–1/8 & 5/32 Contacts.



MAT. BRASS NP

These Pins can be staked to 1/16" or 3/32" Insulator.

MATERIAL: Brass & Nickel Plated

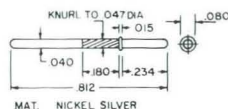
CAT. NO.	A	B
1223	.093	.293
1224	.093	.357
1226	.093	.437
1200	.125	.379
1201	.125	.504
1210	.125	.566
1230	.156	.379
1231	.156	.566

PRECISION FORMED • ECONOMICAL • CLOSE TOLERANCES

USES: Cord Extension, Connectors, Module Sockets, 1001 Other Uses.

KAY PIN for .030 and .040 Socket Contacts

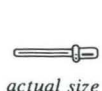
Made of solid Nickel Silver. These are force fitted into pre-drilled hole.



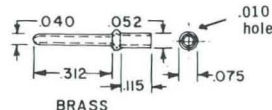
MAT. NICKEL SILVER

CAT. NO. 1218

Tubular (Hollow Pin) for .040 Socket Contacts



actual size

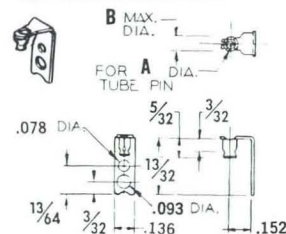


BRASS

Made of Brass, Electro Tinned. These are staked to 1/16" thick insulator.

CAT. NO. 1219

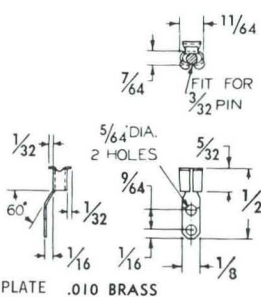
MATING SOCKET CONTACTS for .030 & .040 Pins



MATERIAL: .012 thick Brass, Cadmium Plated. Other platings available; promptly quoted upon request.

CAT. NO.	A	B	Material .012 Thick
1240	.040	.095	Brass
1242	.030	.097	Brass
1243	.040	.095	Ber. Cop.
1244	.040	.095	Phos. Br.

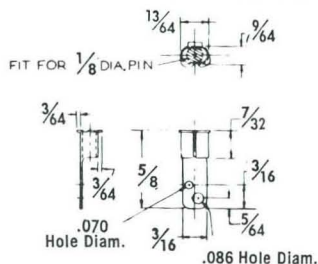
MATES WITH 3/32" DIA. PIN



CADMIUM PLATE .010 BRASS

CAT. NO. 1245

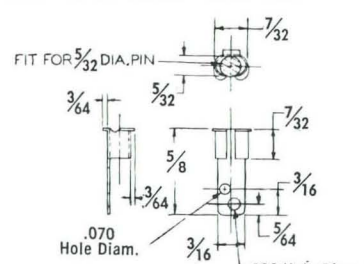
MATES WITH 1/8" DIA. PIN



CADMIUM PLATE .0135 BRASS

CAT. NO. 1247

MATES WITH 5/32" DIA. PIN



Cadmium plate .0135 BRASS

CAT. NO. 1246

STANDARDIZED TERMINALS – NYLON WASHERS



FINISHES: Nickel Plate Mil-F-14072 QQ-N-290 Type V

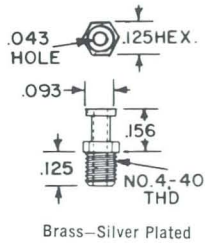
Cadmium plate per QQ-P-416 Type 2 Class B & clear chromate.

Hot Tinned per Mil-F-14072 type 221

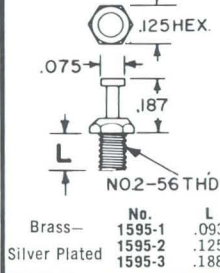
Silver Plate per Mil-F-14072, QQ-S-365.

STANDARDIZED TURRET TERMINALS—THREADED BASES

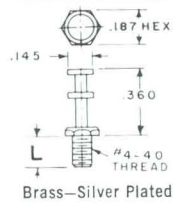
Cat. No. 1563



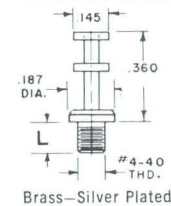
Cat. No. 1595



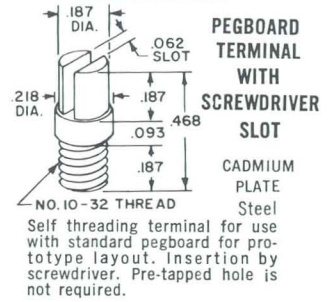
Cat. No. 1587



Cat. No. 1558



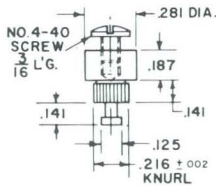
Cat. No. 1658



BINDING POST TERMINALS (RIVET TYPE)

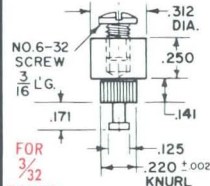
Cat. No. 1537

Binding Post Terminals with 4-40 Screw



Terminal: Brass-Cadmium Plated
Screw: Brass-Nickel Plated

Cat. No. 1535

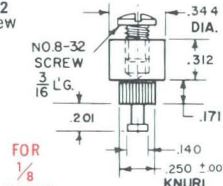


Terminal: Brass-Cadmium Plated
Screw: Brass-Nickel Plated

Rivet Type with 6-32 Screw OR 8-32 Screw

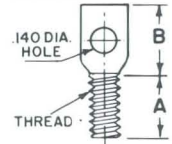


Cat. No. 1536



Terminal: Brass-Cadmium Plated
Screw: Brass-Nickel Plated

SPADE BOLTS

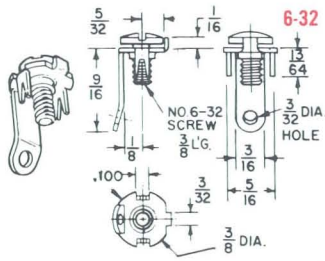


CAT. NO.	A	B	Thread
1259	1/4	1/2	6-32
1260	3/8	13/32	8-32

Steel Cadmium Plated

PRECISION STAMPED SCREW TERMINALS

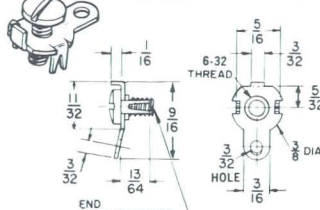
6-32 Tapped



Terminal: Brass-Cadmium Plated
Screw: Steel-Cadmium Plated

Cat. No. 1248

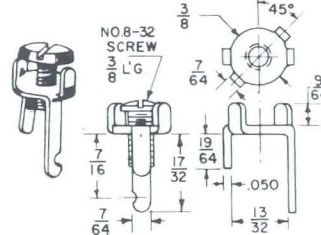
.032 BRASS 6-32x5/16 SCREW



Terminal: Brass-Cadmium Plated
Screw: Steel-Cadmium Plated

Cat. No. 1232

8-32 Tapped

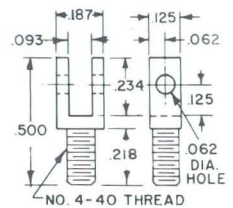


Terminal: Brass-Hot Tin Dipped
Screw: Brass-Nickel Plated

Cat. No. 1209

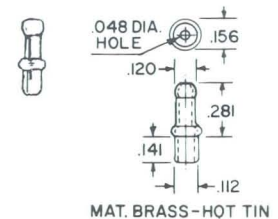
TERMINAL BOARD BRACKET

Brass QQ626 Comp. 22 and nickel plated.

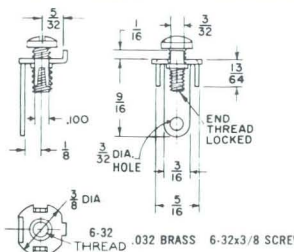


Cat. No. 1203

Low cost tubular pin terminal for 1/16" thick insulator.

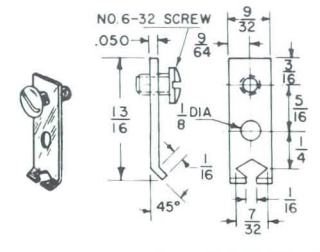


Cat. No. 1221



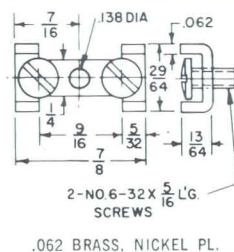
Terminal: Brass-Cadmium Plated
Screw: Steel-Cadmium Plated

Cat. No. 1215



Terminal: Brass-Hot Tin Dipped
Screw: Brass-Nickel Plated

Cat. No. 1277



.062 BRASS, NICKEL PL.
Two 5/16 x 6-32 Brass B.H. Screws Inserted

Cat. No. 1216

MOLDED NYLON AND VULCOID WASHERS

These washers conform to irregular surfaces, seal and dampen vibration, prevent galling under screw head.

FLAT WASHERS (MOLDED NYLON)

Cat. No.	For Screw Size	A	B	C
345	#4	.281	.047	.115
346	#6	.312	.047	.140
347	#8	.375	.062	.170

VULCOID FIBRE FLAT WASHERS

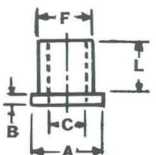
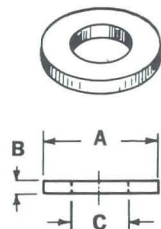
348	#4	.312	.032	.130
349	#10	.312	.032	.210

MOLDED NYLON SHOULDER WASHERS

Cat. No.	For Screw Size	Length L	A	B	F	C
340	#4	.250	.234	.047	.145	.115
341	#6	.250	.290	.047	.170	.140
342	#8	.375	.344	.062	.205	.173


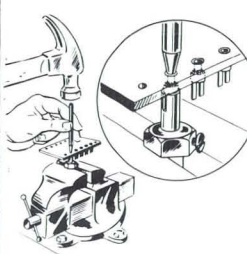
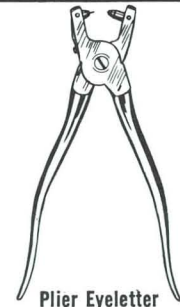
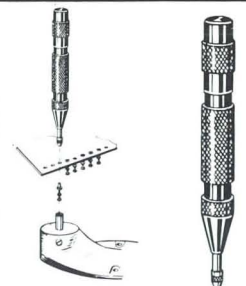
VULCOID FIBRE SHOULDER WASHERS*

343	#4	.025	.312	.062	.203	.125
344	#4	.015	.312	.062	.203	.125



STAKING TOOLS

● **BUILD TERMINAL BOARDS** ● **MOUNT COMPONENTS QUICKLY and EASILY** ●
Repair Circuits ● **Make Prototypes at Your Desk** ● **SAFE—VERSATILE—ECONOMICAL**

 <p>In Drill Press with Power off</p>	 <p>Use in Vise</p>	 <p>Plier Eyeletter</p>	 <p>Impact Staker</p>	<p>ALL TOOLS ARE PRECISION CRAFTED, HEAT TREATED AND PLATED TO ASSURE DEPENDABILITY AND SATISFACTORY SERVICE.</p> <p>COMPLETE SIMPLE INSTRUCTIONS ARE FURNISHED WITH ALL TOOLS</p>
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INDIVIDUAL TOOLS AS SUPPLIED IN "BASIC" AND "MASTER" KITS

TOP SETTING TOOLS (Swager)

1/4" Diameter Tools

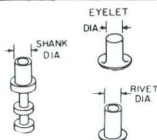
For Single End Terminals, Eyelets or Rivets

Cat. No.	For Shank Diam's.
1714	.062 to .098
1715	.110 to .125

For Dubl End (Feed-thru)

Hole in tool fits over Pin head and securely stakes the rivet part of terminal.

Cat. No.	For Pin on Rivet end
1304	.051 Hole Diam.
1305	.063 Hole Diam.
1306	.073 Hole Diam.
1307	.086 Hole Diam.
1324	.098 Hole Diam.

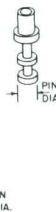
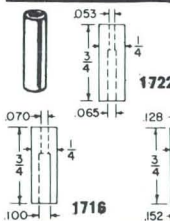


BOTTOM ANVILS

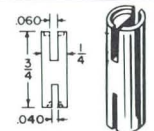
For Single End or Dubl End Terminals

Anvils have different size of holes in each end and therefore will accept 2 sizes of Pins of either Single or Dubl end Turret type Terminals.

Cat. No.	Hole one end	Hole other end
1722	.053	.065
1716	.070	.100
1717	.128	.152



ANVIL FOR FORK TYPE TERMINALS

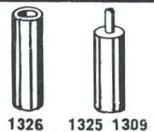


Will accept Diameters of 3/32 to 5/32 at one end and diam. of 3/16 at other end. .040 slot one end and .060 slot at other end.

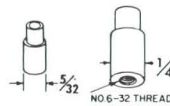
CAT. NO. 1726



ANVIL FOR STANDOFF BUSHINGS



Cat. No.
1326 Holds Bushing with 5/32" O. D.
1325 For Bushing with No. 6-32 Thr'd
1309 For Bushing with No. 4-40 Thr'd



TOOLHOLDER

For 1/4" Diameter Anvils

For use in Vise, Arbor, Kickpress, Punch Press, Drill Press etc. Consists of: Holder, 2 washers and wing nut plus instructions.

CAT. NO. 1719



EYELET STAKING PLIERS

For 1/16" and 3/32" Dia. Eyelets

Tools included.

The eyelet is held on a pin which retracts when engaged by the staker. Quick, Easy operation.

CAT. NO. 1328



INDIVIDUAL TOOLS AS SUPPLIED IN "IMPACT" STAKER KIT

"IMPACT" STAKER (Less Tools)



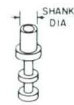
Automatic, Uniform striking action which is adjustable from light to heavy blows. Compact, simple one hand operated device. 1/2" diameter by 5" long—Accepts No. 3-56 threaded tips.

CAT. NO. 1302

TOP SETTING TOOLS (Swager)

Top Setting Tools For Impact Staker

Cat. No.	For Shank Diam's.
1312	.040 to .072
1313	.078 to .093



For Dubl end Terminals (Feed-thru)

Hole in tool fits over Pin head and Firmly Stakes the rivet part of terminal.

Cat. No.	Hole Diam.
1310	.053
1311	.062



TOOLHOLDER (BASE)

For 1/4" Diameter Anvils

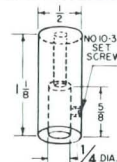


This malleable iron base is ideal for use at the desk or can be mounted permanently—mounting holes are provided. A felt pad is glued to the base and prevents marring finished surfaces. Small, compact easily fits briefcase; or corner of tool box.

CAT. NO. 1301

1/2" TOOL ADAPTER

For 1/4" Diameter Tools



A convenient accessory—used to protect top of tool when hammer staking; or in presses with 1/2" bore in ram.

CAT. NO. 1327

RECEDING PINS AND SPRING

Holds Eyelets and Extruded Lugs, Pin retracts when engaged by Swaging tool.

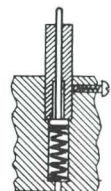
NOTE: Designed for use with Nos. 1722 and 1716 Anvils and Nos. 1719 and 1301 Toolholders. Spring is placed in Toolholder. Pin is inserted into Anvil, then placed over the spring. Simple instructions included.

Cat. No.

1315 Pin is .045 Diam. Use with No. 1722 anvil, ideal for 1/16" Diam. eyelets.

1316 Pin is .068 Diam. Use with No. 1716 Anvil, ideal for 3/32" eyelets or extruded lugs.

1321 Spring only (Pkg. of 2).

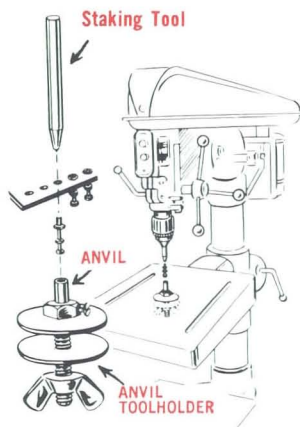


STAKING TOOL KITS



For MANUAL USE and ADAPTABLE TO ANY ARBOR PRESS — KICKPRESS — DRILL PRESS

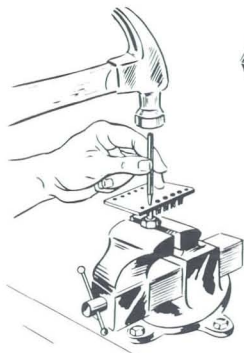
Stakes—Eyelets—Rivets—Terminals • 1001 Uses in the Laboratory or Factory
Produce Professional Results • Uniformity Assured • Quick • Simple • Low Cost



In Drill Press with Power off

OR

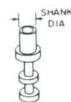
Use in Vise



"BASIC" STAKING KIT

For Single End Terminals, Eyelets or Rivets

For Single End Turret Terminals—Eyelets—Rivets. Stake any Diameter from 1/16" to 1/8". Easily stake the following Terminals, Eyelets and Rivets.



SINGLE END



EYELETS



RIVETS

The unskilled Operator can produce Professional looking assemblies quickly and with little effort. Designed originally for use in Drill Press (WITHOUT POWER ON) it is adaptable for use in a VISE, KICKPRESS, PUNCH or AIR PRESS, ETC. TOOLS are made of Steel, Precision contoured, Heat Treated to proper hardness and plated. They will produce rolls which are professional in appearance to give Long Lasting Wear and Satisfactory Service.

"BASIC" KIT Consists of: ONE EACH — TOOLHOLDER No. 1719 (Will hold any 1/4" dia. Tools) complete with 2 Washers and Wing Nut. TOOLS: 1 each — 1714, 1715, 1716, 1717. Instructions Included. Specify Cat. No. 1721 Kit complete.



"MASTER" STAKING KIT

For Single End, Double End (Feed-thru) and Fork Terminals Extruded Lugs, Eyelets, Rivets, etc.

Stake Diameters from 1/16" to 3/16"

Easily stake the following Terminals, Eyelets and Rivets.



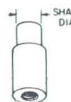
SINGLE END



DOUBLE FEED THRU



MILLED FORK TYPE



BUSHINGS



EYELETS



RIVETS

A New Kit including all of the Basic Tooling incorporated into the No. 1721 KIT PLUS additional Tools to do most of the staking operations required in the Laboratory and Factory. The Serviceman, Lab Technician and Factory Mechanic will appreciate the versatility, that this tooling will provide.

"MASTER" KIT Consists of: ONE EACH — TOOLHOLDER No. 1719 (will hold any 1/4" dia. Tools) complete with 2 Washers and Wing Nut. TOOLS: 1 each — 1304, 1305, 1306, 1307, 1315, 1316, 1321, 1324, 1325, 1326, 1714, 1715, 1716, 1717, 1719, 1722, 1726. Instructions Included. Specify Cat. No. 1713 Kit complete.

"IMPACT" STAKING KIT — For Terminals - Eyelets - Rivets

For Single End, Double End (Feed-thru) and Fork Terminals Extruded Lugs, Eyelets, Rivets, etc.



- MOVING PARTS HARDENED
- SIMPLE CONSTRUCTION
- FOOLPROOF
- SAFE
- AUTOMATIC SINGLE HAND OPERATION
- PRESS DOWN AND IT STAKES
- ADJUSTABLE FROM LIGHT TO HEAVY BLOW



Will Stake all Diameters to 3/32" max. capacity.

Easily stake the following Terminals, Eyelets and Rivets.



SINGLE END



DOUBLE FEED THRU



MILLED FORK TYPE



EYELETS



RIVETS

Anyone can perform assembly operations anywhere in the Lab, Shop, or Home on a Desk or at the Bench. Compactly packaged to be carried in Briefcase or Tool Box.

The "Impact Handle" will produce a light or heavy blow which is adjustable by turning of the spring tension cap. Uniform striking action attained by pressing down handle. Interchangeable Tools supplied permit assembly of Terminal Boards, Printed Circuits and small components.

Base (Toolholder) is felt covered to prevent marring. Mounting holes provided for permanent assembly to bench.

"IMPACT" KIT Consists of: ONE EACH — TOOLHOLDER No. 1301 Anvil Tool Holder. "IMPACT" HANDLE No. 1302 TOOLS: 1 each—1310, 1311, 1312, 1313, 1315, 1316, 1321, 1716, 1717, 1722, 1726. Instructions Included. Specify Cat. No. 1707 Kit complete.

ILLUSTRATED TERMINAL INDEX

Standardize with KEYSTONE Terminals: We have supplied these precision made terminals to government agencies and industrial users for over twenty years.

The most popular types of terminals are marked with a star (★) and are most economical.

MATERIAL: Machined of free cutting 1/2 hard BRASS per Mil-QQ-B-626, Comp. 22, 1/2 hard.

TOOLING: Individual sets of staking tools and kits of tools available from stock.

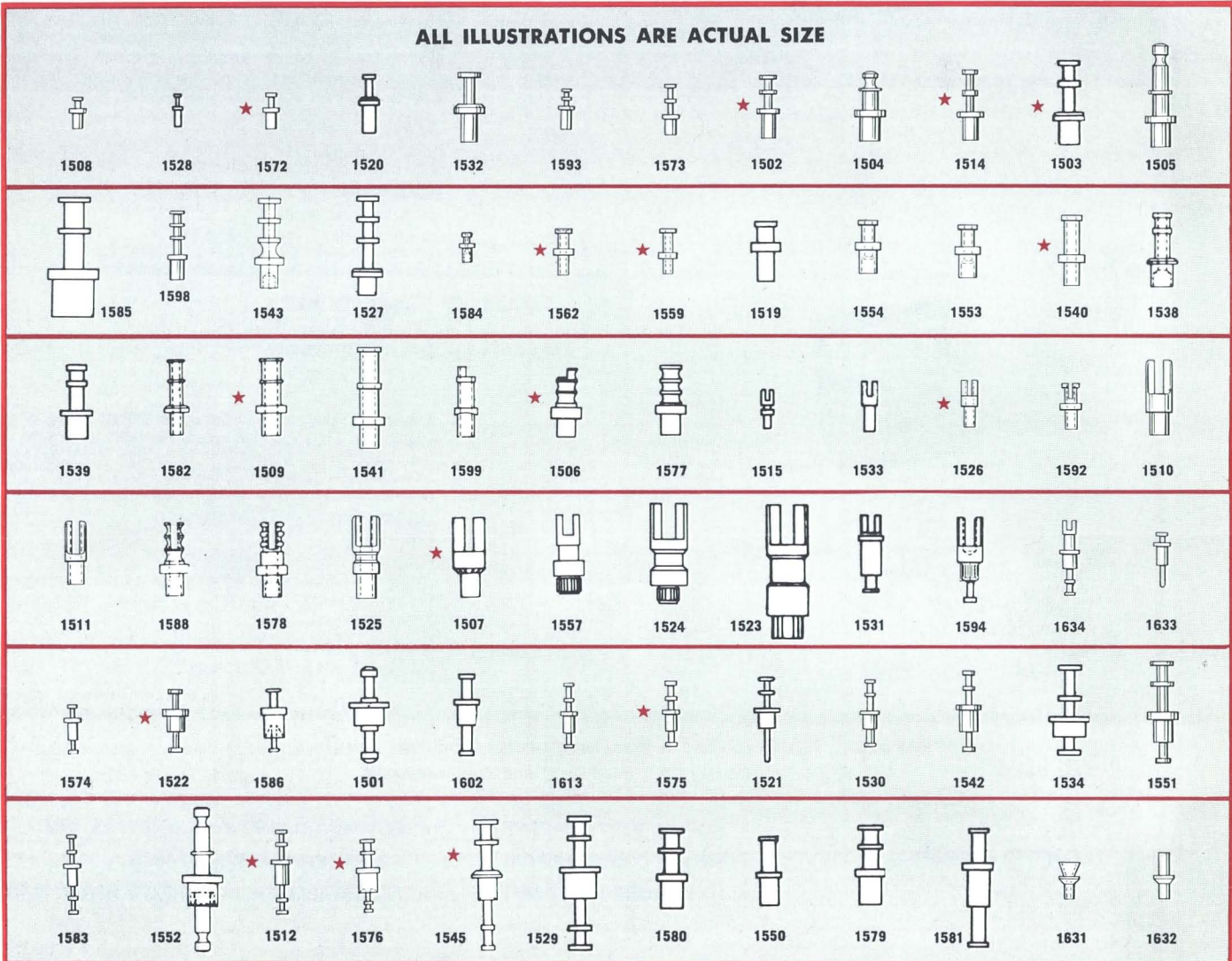
PLATING: Terminals are stocked in Silver Plate per Mil-F-14072, QQ-S-365. (We highly recommend Hot Tin Dip finish for longer shelf life, better solderability and resistance to tarnish).

TOLERANCES: Decimals — DO NOT EXCEED plus or minus .005.

SPECIAL TERMINALS: Made to your exacting specifications, platings and tolerances. Prompt quotations rendered.

CUSTOM-BUILT BOARDS: We are specialists in the assembly of terminals, eyelets, clips and special hardware, submit your drawings and prompt quotation will be rendered.

ALL ILLUSTRATIONS ARE ACTUAL SIZE



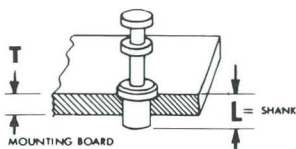
DETAILED DIMENSIONAL DRAWINGS ON THE FOLLOWING PAGES

(★) The most popular types of terminals are marked with a star (★) and are most economical.

ORDERING INFORMATION:

TERMINALS

Specify catalog number of terminal selected and add the dash number or mention the thickness of the insulator to be used, for example: 1503-1 for 1/32" insulator, 1503-2 for 1/16" insulator etc.



- 1 for insulating board 1/32" thick
- 2 for insulating board 1/16" thick
- 3 for insulating board 3/32" thick
- 4 for insulating board 1/8" thick

STAKING TOOLS

Catalog No. TL-series designates a set of tools, consisting of TOP (staking) and BOTTOM (holder). Some sets of tools can be used for other terminals with similar dimensions. Tools are made of 1/4" dia. steel and cadmium plated. Precision Machined and carefully hardened to insure long wear.

1/2" dia. Adapters for 1/4" dia. Tools are available. Specify Cat. No. 1327.

NOTE: Where tools are not listed they are available on special order only.



STANDARDIZED TERMINALS

SINGLE, DOUBLE & THREE TURRET SERIES

1508				1528				1572				1520				1532			
No.	L	T	Staking Tools No.	No.	L	T	Staking Tools	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.
1508-1	.045	1/32	No.	1528-1	.051	1/32	No.	1572-1	.051	1/32	No.	1520-1	.078	1/32	No.	1532-1	.078	1/32	No.
1508-2	.094	1/16	TL-1	1528-2	.082	1/16	*	1572-2	.082	1/16	TL-4	1520-2	.109	1/16	TL-2	1532-2	.109	1/16	TL-8
1508-3	.125	3/32		1528-3	.113	3/32		1572-3	.113	3/32		1520-3	.141	3/32		1532-3	.141	3/32	
1508-4	.156	1/8		1528-4	.145	1/8		1572-4	.145	1/8		1520-4	.172	1/8		1532-4	.172	1/8	

1593				1573				1502				1504				1514			
No.	L	T	Staking Tools No.	No.	L	T	Staking Tools	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.
1593-1	.054	1/32	No.	1573-1	.051	1/32	TL-4	1502-1	.078	1/32	TL-2	1504-1	.078	1/32	TL-8	1514-1	.078	1/32	TL-5
1593-2	.084	1/16		1573-2	.082	1/16		1502-2	.109	1/16		1504-2	.109	1/16		1514-2	.109	1/16	
1593-3	.115	3/32		1573-3	.113	3/32		1502-3	.141	3/32		1504-3	.141	3/32		1514-3	.141	3/32	
1593-4	.147	1/8		1573-4	.145	1/8		1502-4	.172	1/8		1504-4	.172	1/8		1514-4	.172	1/8	

1503				1505				1585				1598				1543			
No.	L	T	Staking Tools No.	No.	L	T	Staking Tools	No.	L	T	Staking Tools	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.
1503-1	.078	1/32	No.	1505-1	.078	1/32	TL-8	1585-2	.109	1/16	No.	1598-1	.062	1/32	TL-2	1543-1	.078	1/32	TL-8
1503-2	.109	1/16		1505-2	.109	1/16		1585-3	.141	3/32	*	1598-2	.094	1/16		1543-2	.109	1/16	
1503-3	.141	3/32		1505-3	.141	3/32		1585-4	.172	1/8		1598-3	.125	3/32		1543-3	.141	3/32	
1503-4	.172	1/8		1505-4	.172	1/8						1598-4	.156	1/8		1543-4	.172	1/8	

TUBULAR TERMINAL SERIES (HOLLOW)

1527				1584				1562				1559				1519			
No.	L	T	Staking Tools No.	No.	L	T	Staking Tools	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.
1527-1	.078	1/32	TL-8	1584-1	.045	1/32	TL-1	1562-1	.054	1/32	TL-2	1559-1	.062	1/32	TL-2	1519-1	.078	1/32	TL-8
1527-2	.109	1/16		1584-2	.094	1/16		1562-2	.084	1/16		1559-2	.094	1/16		1519-2	.109	1/16	
1527-3	.141	3/32		1584-3	.125	3/32		1562-3	.115	3/32		1559-3	.125	3/32		1519-3	.141	3/32	
1527-4	.172	1/8						1562-4	.147	1/8		1559-4	.156	1/8		1519-4	.172	1/8	

1554				1553				1540				1538				1539			
No.	L	T	Staking Tools No.	No.	L	T	Staking Tools	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.	No.	L	T	Staking Tools No.
1554-1	.078	1/32	TL-8	1553-1	.078	1/32	TL-8	1540-2	.109	1/16	TL-5	1538-1	.078	1/32	TL-8	1539-1	.078	1/32	TL-8
1554-2	.109	1/16		1553-2	.109	1/16		1540-3	.141	3/32		1538-2	.109	1/16		1539-2	.109	1/16	
1554-3	.141	3/32		1553-3	.141	3/32		1540-4	.172	1/8		1538-3	.141	3/32		1539-3	.141	3/32	
1554-4	.172	1/8		1553-4	.172	1/8						1538-4	.172	1/8		1539-4	.172	1/8	

*On Special Order Only

STANDARDIZED TERMINALS



DOUBLE-END TERMINAL SERIES

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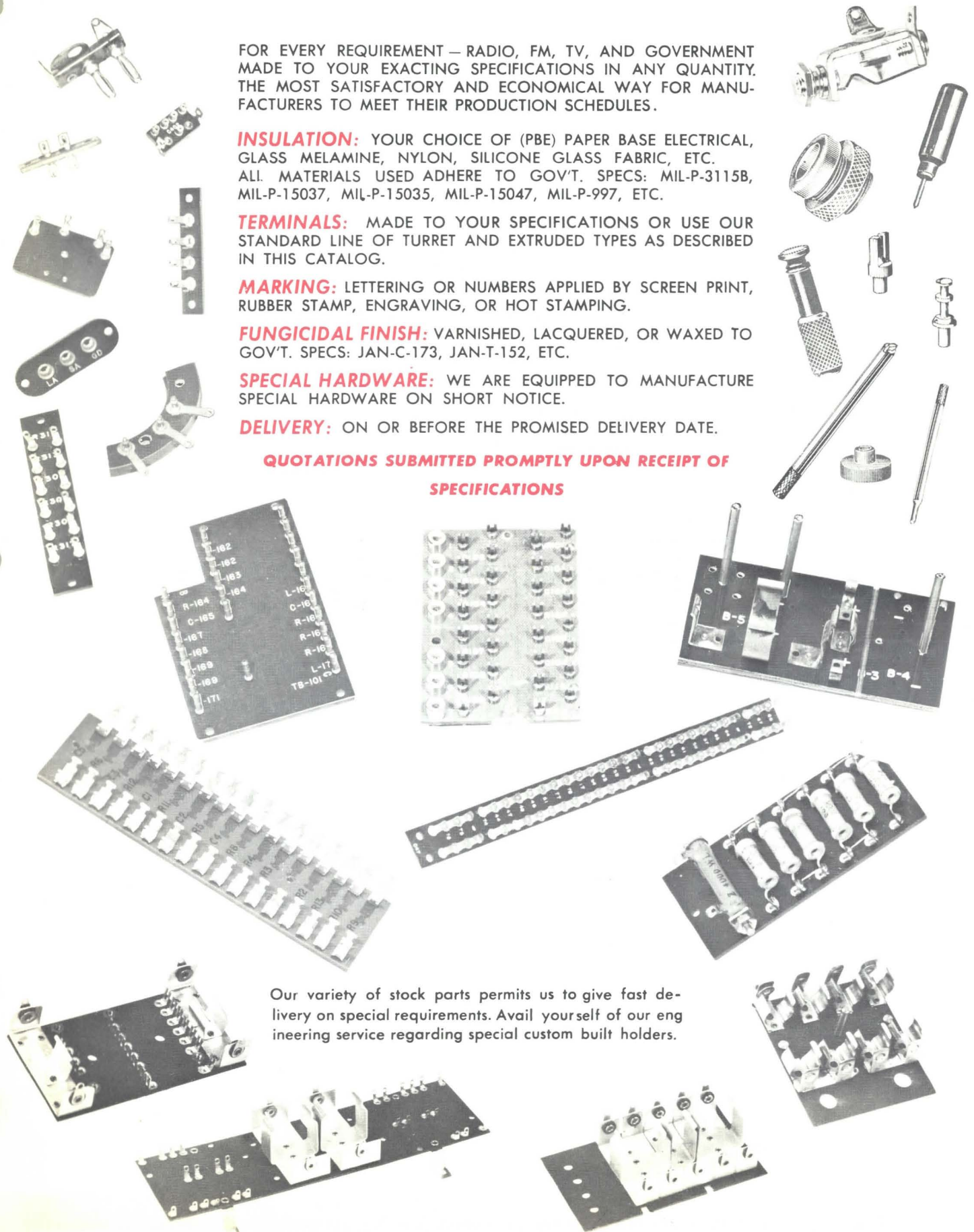
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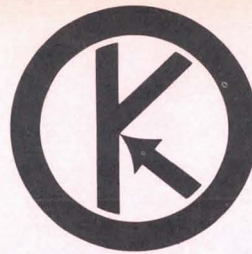
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1246-32	1609-4	1792-1-02	1702	3928-19	1621-3	1308	1507	1551J	1452B		
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1310-35	15287	1798	1539	3928-25	1620-4	1315	1610	1551M	1452D		
1311-25	15047	1801-1	1547	3928-27	1621-4	1316	1611	2000	1526		
1311-35	15247	1801-2	1548A	3928-28	1622-4	1320	1534	2010	1562		
1312-25	15067	1801-3	1548B	3934-3	1450	1330	1539	2010T	1563		
1312-35	15267	1801-4	1548C	3935-3	1451A	1340	1520	2011	1559		
1313-25	15057	1801-5	1548D	3935-5	1451B	1340T	1595	2020	1592		
1313-35	15257	1801-6	1548E	3935-7	1451C	1350	1532	2024	1515		
1314-25	15077	1801-7	1549A	3935-8	1451D	1360	1529	2030	1593		
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1315-25	15097	1801-9	1549C			1380	1506	2040	1576		
1315-35	15297	1801-10	1549D			1390	1582	2050	1586		
1320-25	15088	1969	1507			1391	1557	2060	1508		
1320-35	15288	1979	1506			1392	1519	2061	1528		
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1321-35	15248	1998-2	1568			1512	1700	2200C	15024		
1322-25	15068	1998-3	1569			1520	1702	2202B	15229		
1322-35	15268	1998-4	1570			1530B 1/8	1560B	2202C	15224		
1323-25	15058	1998-5	1571			1530C 1/8	1560C	2210	15023		
1323-35	15258	2000	1530			1530D 1/8	1560D	2212	15223		
1324-25	15078	2004	1512			1530B 1/4	1546	2501	1530		
1324-35	15278	2027	1559			1530C 1/4	1546B	2502	1512		
1325-25	15098	2034	1514			1530D 1/4	1546D	2509	1583		
1325-35	15298	2040	1583			1530B 3/8	1561B	2510	1575		
1330-25	15089	2041	1572			1530C 3/8	1561C	2520	1573		
1330-35	15289	2042	1574			1530D 3/8	1561D	2530	1574		
1331-25	15049	2043	1573			1530B 1/2	1604-2	2540	1572		
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1332-25	15069	2051	1587			1530D 1/2	1604-4	2720	1580		
1332-35	15269	2080	1598			1530B 5/8	1605-2	2760	1513		
1333-25	15059	2081	1521			1530C 5/8	1605-3	2761	1517		
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CROSS REFERENCE

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2800A	15023
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2800C	15024
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3010	1503
3015	1532
3020	1504
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3045	1527
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3535	1540
3540	1541
3545	1509
4005	1552
4010	1529
4015	1534
4020	1501
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4505	1510
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4535	1511
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4560	1515
4565	1524
4570	1523
4581	1521
4586	1610
5003	1528
5005	1593
5010	1575
5015	1583
5020	1573
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5090	1508
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7073-4	26
7073-5	27
7073-6	33
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7073-8	35
7073-9	36
7073-10	37
7073-11	38
7073-13	43

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7073-17	47	8005C	1546B
7073-18	48	8005D	1546D
8010B	1561B	8010C	1561C
8010D	1561D	8015B	1621-2
8015C	1621-3	8015D	1621-4
8020B	1623-2	8020C	1623-3
8020D	1623-4	8025A	1547
8025C	1548A	8025D	1548B
8025E	1548C	8025F	1548D
8025G	1548E	8030B	1549A
8030C	1549B	8030D	1549C
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8070G	1451E	8070I	1452A
8070J	1452B	8070K	1452C
8070M	1452D	9030	1579
9031	1580	9032	1581

A. BRADLEY

A. B	KEY
M2786	1456
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M3318	1496
M4134	1473
M4377	1477
M4721	1449
M4748	1476
M4761	1497
M6328	1472
M6347	1479
M6351	1478
M6352	1478
M6355	1485
M6359	1476
M6369	1471
M6377	1489
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M6381	1449
M6377	1489
M6378	1489
M6381	1449
AB13750	1455

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1D3-8	1593	1D6-15	1558
1D3-11	1573	1D6-16	1587
1S6-17	1532	1S4-19	1520
1S4-19	1520	1S3-21	1572
1S3-21	1508	1S3-23	1508
1S2-25	1528	1S6-27	1504
1S6-27	1504	1S6-28	1505
1S6-28	1505	2D6-29	1509
2D6-29	1509	2D6-30	1541
2D6-30	1541	2D6-31	1577
2D6-31	1577	2D6-32	1539
2D6-32	1539	2D5-33	1582
2D5-33	1582	2S6-35	1519
2S6-35	1519	2S5-36	1540
2S5-36	1540	2S4-38	1562
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3DD10-41	1518	3DD8-43	1529
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3DD5-46	1576	3DD4-48	1512
3DD4-48	1512	3DD3-49	1583
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3PD8-50	1552	3PD5-51	1521
3PD5-51	1521	3DS8-54	1534
3DS8-54	1534	3DS4-57	1530
3DS4-57	1530	3DS3-58	1575
3DS3-58	1575	3SS10-61	1516
3SS10-61	1516	3SS8-62	1501
3SS8-62	1501	3SS5-63	1522
3SS5-63	1522	3SS5-64	1586
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3SS3-67	1574	3SS5-68	1602
3SS5-68	1602	4S8-70	1523
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52S6-84	1506	55A-85	1592
55A-85	1592	6D6-90	1580
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6SS6-94	1581	6PT8-96	1513
6PT8-96	1513	1710C	1535
1710C	1535	1710D	1536
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2520C 1/8	1589-3	2520C 1/4	1591-3
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2602	15033	2603	15034
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MILITARY

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SE11XC02	1572-3
SE11XC03	1572-4
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SE12XC02	1573-3
SE12XC03	1573-4
SE12XC04	1502-2
SE12XC05	1502-3
SE12XC06	1502-4
SE12XC07	1503-2
SE12XC08	1503-3
SE12XC09	1503-4
SE13XC01	1574-2
SE13XC02	1574-3
SE13XC03	1574-4
SE13XC04	1522-2
SE13XC05	1522-3
SE13XC06	1522-4
SE14XC01	1575-2
SE14XC02	1575-3
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SE14XC06	1551-4
SE14XC07	1551-5
SE14XC08	1551-6
SE14XC09	1551-7
SE14XC10	1551-8
SE15XC02	1583-3
SE15XC03	1583-4
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SE15XC06	1576-4
SE15XC07	1529-2
SE15XC08	1529-3
SE15XC09	1529-4
SE16XC01	1562-2
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SE16XC03	1562-4
SE17XC01	1509-2
SE17XC02	1509-3
SE17XC03	1509-4

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7AA5EP	1758EP	7AA5EP	1758EP
11AA7EP	1759EP	15AA5	1760
15AA5	1760	15AA5EP	1760EP
15AA5EP	1760EP	18A18	1806
18A18	1806	29Q9/032	4243
29Q9/032	4243	29Q9/047	4247
29Q9/047	4247	29Q22/032	4344
29Q22/032	4344	29Q22/047	4248
29Q22/047	4248	32A3	1731
32A3	1731	32AA5	1749
32AA5	1749	32AA7	1740
32AA7	1740	32AA7EP	1740EP
32AA7EP	1740EP	32A9	1738
32A9	1738	32AA9	1741
32AA9	1741	32A18WE	1792
32A18WE	1792	32AA18	1756
32AA18	1756	32AA18EP	1756EP
32AA18EP	1756EP	32AA32	1817
32AA32	1817	32AA32EP	1817EP
32AA32EP	1817EP	42F22C-1	1887
42F22C-1	1887	42F22C-2	1888
42F22C-2	1888	42F22WEC-1	1881
42F22WEC-1	1881	42F22WEC-2	1886
42F22WEC-2	1886	42G22WEC-1	1931
42G22WEC-1	1931	42G22WEC-2	1932
42G22WEC-2	1932	42G24	1908
42G24	1908	42G24EP	1908EP
42G24EP	1908EP	42G24WE	1915
42G24WE	1915	42F42	1777
42F42	1777	42G42	1780
42G42	1780	42G42EP	1780EP
42G42EP	1780EP	42G42WE	1917
42G42WE	1917	45B7	1761
45B7	1761	45B30	1762
45B30	1762	59P19/032	4226
59P19/032	4226	59P19/047	4230
59P19/047	4230	59P44/032	4227
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59P44/047	4231	64A18	1739
64A18	1739	64A18WE	1793
64A18WE	1793	64AA18	1742
64AA18	1742	64AA18EP	1742EP
64AA18EP	1742EP	64A32WE	1795
64A32WE	1795	64AA32	1757
64AA32	1757	64AA32EP	1757EP
64AA32EP	1757EP	84Q29/032	

CROSS REFERENCE

HHS		HHS		HHS		GC		WALSCO		GOV'T	
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105	1690	2019	1557	2343	1454D	5097	3326	2508	3343	MS 17121-2	1528-1-GP
106	1680	2020	1519	2344	1454E	6701	1453	2512	3321	MS 17121-3	1520-1-GP
108	1600	2021	1526	2351	1464	6721	1470	2515	3326	MS 17121-4	1532-1-GP
115	500	2022	1562	2352	1465	6765	1480	2517	3330	MS 17121-5	1528-2-GP
116	509	2023	1592	2354	1466	6767	1482			MS 17121-6	1520-2-GP
								2522	3320	MS 17121-7	1532-2-GP
								2527	3331		
117	505	2024	1593	2355	1467	6768	1483	2531X	3303	MS 17121-8	1528-3-GP
120	1453	2025	1576	2370	1547A	6775	1490	2532X	3304	MS 17121-9	1520-3-GP
121	552-3	2026	1586	2371	1547B	6777	1492	2534X	3306	MS 17121-10	1532-3-GP
124	1691	2027	1508	2372	1547C	6778	1493			MS 17121-11	1528-4-GP
125	3019	2029	1575	2373	1547D	6785	1548A			MS 17121-12	1520-4-GP
								2535X	3307	MS 17121-13	1532-4-GP
127	1681	2030	1573	2374	1547E	6786	1548B	2537	3314		
128	3014	2031	1574	2377	703	6787	1548C	2538	3316		
140	1470	2032	1572	2378	2042	6789	1548E	2543	3323	MS 17122-2	1593-1-GP
181	1701	2034	1580	2421-08	660	8115	76	7665	561	MS 17122-3	1502-1-GP
182	1702	2037	1513	2422-08	663	8273	3327			MS 17122-4	1503-1-GP
								7667	560	MS 17122-5	1593-2-GP
191	452	2038	1517	2423-08	650	8274	3332	1986-01	72	MS 17122-6	1502-2-GP
193	475-2	2045	1537	2424-08	661	8276	3325	1986-02	74	MS 17122-7	1503-2-GP
200-B	1661	2073	452	2432-08	664	8289	3330	1986-03	76		
200-R	1660	2100	1457A	2437-08	662	8606	3323	1986-04	77	MS 17122-9	1593-3-GP
201-B	1671	2101	1457B	2438-08	643					MS 17122-10	1502-3-GP
										MS 17122-11	1503-3-GP
201-R	1670	2102	1457C	2439-08	677	8728	3303			MS 17122-13	1593-4-GP
203-B	1616	2103	1457D	2810	15031	8728A	3302			MS 17122-14	1502-4-GP
203-R	1615	2104	1457E	2811	15032	8729	3304			MS 17122-15	1503-4-GP
213	1651	2105	1480	2812	15033	8987	3311				
216-B	3016	2106	1481	2813	15034	8988	3312				
216-R	3015	2107	1482	2814	15035	8989	3313			MS 17155-2	1574-1-GP
229	3018	2108	1483	4100	1650-2	9051	3331			MS 17155-4	1574-2-GP
302-B	1841	2109	1484	4101	1650-3	33-018	1651-R			MS 17155-5	1574-2-GP
302-R	1840	2120	1548A	4103	1651-2	33-020	1651-B			MS 17155-7	1586-2-GP
303-B	1843	2121	1548B	4104	1651-3	33-068	452				
303-R	1842	2122	1548C	4106	1623-2	33-100	3015			MS 17155-8	1574-3-GP
317-B	1850	2123	1548E	4107	1623-3	33-102	3016			MS 17155-10	1586-3-GP
317-R	1849	2124	1548F	4109	1624-2	33-106	1660			MS 17155-11	1574-4-GP
318-B	1852	2125	1692A	4110	1624-3	33-108	1661			MS 17155-13	1586-4-GP
318-R	1851	2126	1692B	4112	1625-2	33-110-1	3018-R				
363	1898	2127	1692C	4113	1625-3	33-118	1615			MS 17156-1	1575-1-GP
600	2375	2128	1692D	4115	1652-2	33-120	1616			MS 17156-2	1530-1-GP
613	2377	2129	1692E	4116	1652-3	33-142	1680			MS 17156-3	1534-1-GP
1195	1456	2130	367	4118	1546	33-144-1	1670			MS 17156-4	1575-2-GP
1196	1458	2131	368	4119	1546B	33-144-2	1671				
1197	1459	2132	369	4120	1546D	33-146	1690			MS 17156-5	1530-2-GP
1202	561	2133	370	4121	1561B	33-149	3014			MS 17156-6	1534-2-GP
1203	560	2134	371	4122	1561C	33-156	1600			MS 17156-7	1575-3-GP
1205	76	2140	1490	4123	1561D	33-158	1601			MS 17156-8	1530-3-GP
1206	77	2141	1491	4124	1604-2	33-170	3019				
1210	74	2142	1492	4125	1604-3	33-172	1681			MS 17156-9	1534-3-GP
1215	562	2143	1493	4126	1604-4	33-380	1842			MS 17156-10	1575-4-GP
1218	75	2144	1494	4127	1605-2	33-382	1843			MS 17156-11	1530-4-GP
1234	72	2255	700	4128	1605-3	33-384	1851			MS 17156-12	1534-4-GP
1246	565	2256	2037	4129	1605-4	33-386	1852				
1247	574	2257	701	4130	1608-2	33-392	1840			MS 17157-2	1583-1-GP
1404	1460	2260	2038	4131	1608-3	33-394	1841			MS 17157-3	1512-1-GP
1405	1462	2289	702	4132	1608-4	33-404-1	1842			MS 17157-5	1583-2-GP
1406	1461	2320	1451A	4133	1609-2	33-404-2	1843			MS 17157-6	1512-2-GP
1407	1463	2321	1451B	4134	1609-3	33-454-S	2375				
1478	1248	2322	1451C	4135	1609-4	33-792	560			MS 17157-9	1583-3-GP
1479	1209	2323	1451E	4200	1627-2	33-770	561			MS 17157-10	1512-3-GP
2000	1509	2325	1474A	4201	1627-3	33-814	505			MS 17157-13	1583-4-GP
2002	1501	2326	1474B	4203	1628-2	33-810	500			MS 17157-14	1512-4-GP
2003	1552	2327	1474C	4204	1628-3	33-812	509				
2004	1578	2328	1474D	4206	1629-2	33-392	1840			MS 17158-1	1525-2-GP
2005	1577	2329	1474E	4207	1629-3	33-770	561			MS 17158-2	1524-2-GP
2006	1502	2330	1450A	4209	1654-2	33-814	505			MS 17158-3	1525-3-GP
2007	1522	2331	1450B	4210	1654-3	33-810	500			MS 17158-4	1524-3-GP
2008	1503	2332	1450C	4212	1655-2	33-812	509			MS 17158-5	1523-3-GP
										MS 17158-6	1525-4-GP
2009	1587	2333	1450D	4213	1655-3	33-940	1209			MS 17158-7	1524-4-GP
2010	1510	2334	1450E	4215	1630-2					MS 17158-8	1523-4-GP
2011	1534	2335	360	4216	1630-3						
2012	1539	2336	361	4218	1621-2						
2013	1520	2337	362	4219	1621-3						
2014	1532	2338	363	4220	1621-4						
2015	1529	2339	364	4221	1622-2						
2016	1505	2340	1454A	4222	1622-3						
2017	1506	2341	1454B	4223	1622-4						
2018	1582	2342	1454C	8836	1548D						
				8876							

ACME

ACME	KEY
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32	226
37	189
38	185
39	186
41	192
42	196
43	200
44	139A
45	140A
46	171A
47	182A
51	166
52	167
54	179
55	175
58	163
60	168
62	165
65	135
69	134
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97	201
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137	110

CUSTOM BUILT TERMINAL BOARDS AND COMPONENT PARTS

FOR EVERY REQUIREMENT — RADIO, FM, TV, AND GOVERNMENT MADE TO YOUR EXACTING SPECIFICATIONS IN ANY QUANTITY. THE MOST SATISFACTORY AND ECONOMICAL WAY FOR MANUFACTURERS TO MEET THEIR PRODUCTION SCHEDULES.

INSULATION: YOUR CHOICE OF (PBE) PAPER BASE ELECTRICAL, GLASS MELAMINE, NYLON, SILICONE GLASS FABRIC, ETC. ALL MATERIALS USED ADHERE TO GOV'T. SPECS: MIL-P-3115B, MIL-P-15037, MIL-P-15035, MIL-P-15047, MIL-P-997, ETC.

TERMINALS: MADE TO YOUR SPECIFICATIONS OR USE OUR STANDARD LINE OF TURRET AND EXTRUDED TYPES AS DESCRIBED IN THIS CATALOG.

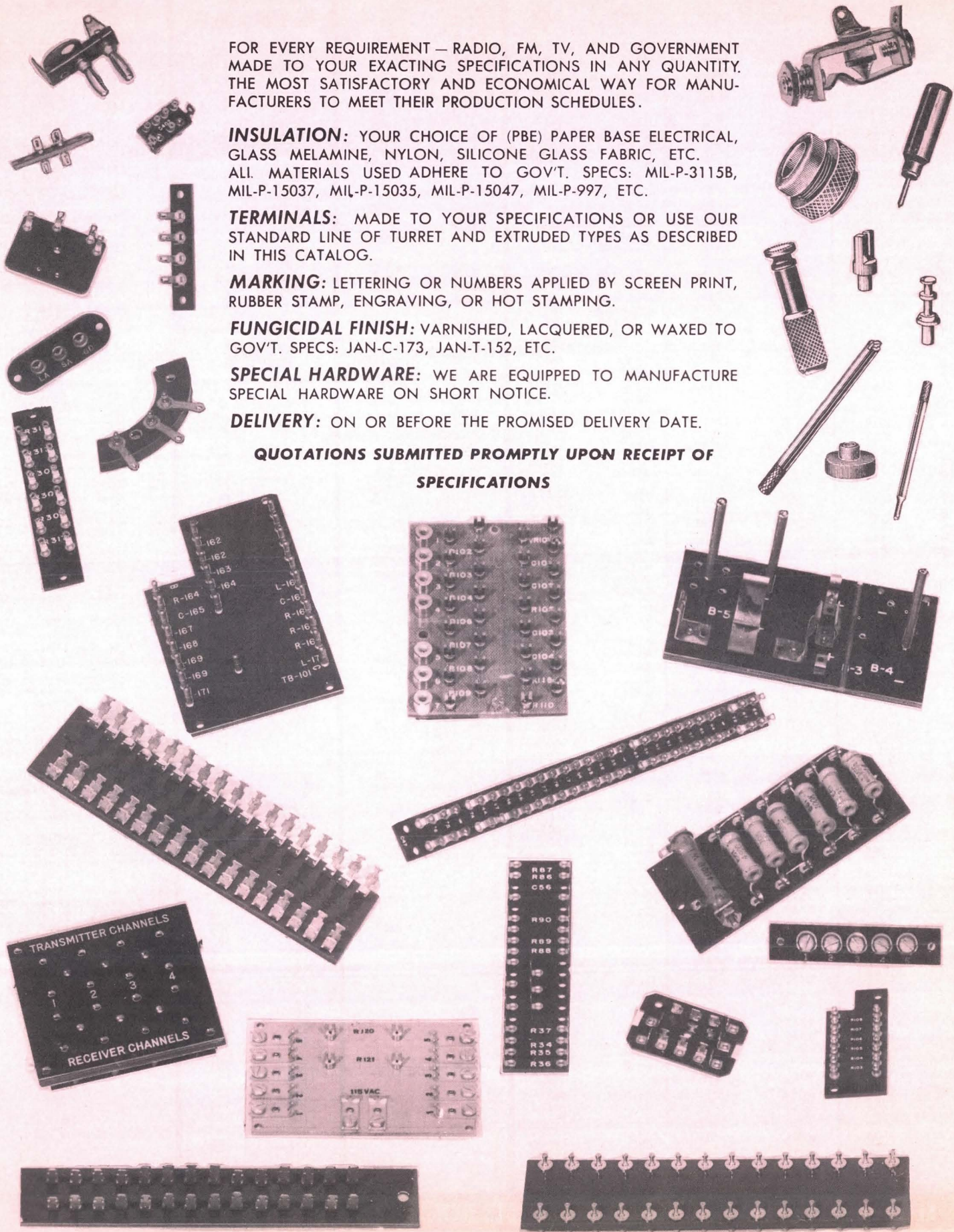
MARKING: LETTERING OR NUMBERS APPLIED BY SCREEN PRINT, RUBBER STAMP, ENGRAVING, OR HOT STAMPING.

FUNGICIDAL FINISH: VARNISHED, LACQUERED, OR WAXED TO GOV'T. SPECS: JAN-C-173, JAN-T-152, ETC.

SPECIAL HARDWARE: WE ARE EQUIPPED TO MANUFACTURE SPECIAL HARDWARE ON SHORT NOTICE.

DELIVERY: ON OR BEFORE THE PROMISED DELIVERY DATE.

**QUOTATIONS SUBMITTED PROMPTLY UPON RECEIPT OF
SPECIFICATIONS**



TERMS—1%10th and 25th, 30 days Net. Open account terms extended to well-rated concerns. Firms without published rating may apply for an open account by submitting 3 trade and bank references.

DELIVERY—F.O.B. New York City plant.

QUOTATIONS—Automatically expire 60 days after date quoted; requoted if requested. We reserve the right to correct clerical or stenographic errors or omissions.

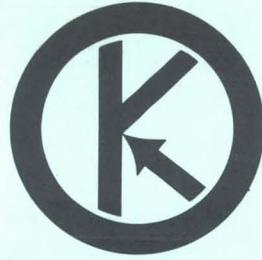
RETURNS—No goods accepted unless you receive written authorization from Keystone Electronics Corp.

Custom Fabricated Parts are not returnable for credit; acceptable for repair or replacement only.

CLAIMS—Must be made by purchaser within 15 days after receipt of shipment.

See **UNITED PRICING REPORTS** for up-to-date Pricing and revisions.

KEYSTONE



DESIGNERS AND MANUFACTURERS

O.E.M. NET PRICE LIST NO. 678

EFFECTIVE JAN. 1970

Supersedes all previous price lists.

Prices are subject to change without notice.

Minimum Billing Charge for:

Stock Items.....\$10.00 per Order

Custom Fabrications\$15.00 per Item

Tooling and Screens are additional

ALL CATALOG ITEMS ARE AVAILABLE FOR IMMEDIATE DELIVERY FROM STOCK.

Catalog Number	1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-15M Per M	Page #	Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
TL-1	3.00	3.00	...	...	...	38	76	.35	.28	26.00/C	9
TL-2	3.00	3.00	...	...	...	38	77	.35	.30	28.00/C	9
TL-3	3.00	3.00	...	...	...	38	78	.08	.07	6.00/C	7
TL-4	3.00	3.00	...	...	...	38	79	.07	.06	5.00/C	7
TL-5	3.00	3.00	...	...	...	38	80	.07	.06	5.00/C	7
TL-6	3.00	3.00	...	...	...	38	86	.09	.08	7.50/C	7
TL-8	3.00	3.00	...	...	...	38	87	.12	.11	9.75/C	7
TL-9	3.00	3.00	...	...	...	38	88	.13	.12	10.50/C	7
TL-10	3.00	3.00	...	...	...	38	89	.10	.09	8.25/C	7
TL-11	3.00	3.00	...	...	...	38	90	.06	.04	3.00/C	7
TL-12	3.00	3.00	...	...	...	38	91	.07	.05	4.00/C	7
TL-13	3.00	3.00	...	...	...	38	92	.05	.04	3.00/C	7
TL-14	3.00	3.00	...	...	...	38	93	.07	.06	5.00/C	7
TL-15	3.00	3.00	...	...	...	38	94	.08	.07	6.00/C	7
TL-16	3.00	3.00	...	...	...	38	95	.07	.06	5.00/C	7
TL-17	3.00	3.00	...	...	...	38	96	.08	.07	6.75/C	7
TL-18	3.00	3.00	...	...	...	38	97	.09	.08	7.50/C	7
TL-19	3.00	3.00	...	...	...	32	98	.11	.10	9.00/C	7
TL-20	3.00	3.00	...	...	...	32	99	.05	.04	3.60/C	7
TL-21	3.00	3.00	...	...	...	32	100	.09	.08	7.25/C	7
22	...	...	.85/C	5.75	4.75	34	101	.39	.34	.32	6
23	...	...	.85/C	5.75	4.75	34	103	.41	.36	.34	6
24	...	...	.85/C	5.75	4.75	34	104	.42	.37	.35	6
25	...	...	.95/C	6.00	5.00	34	106	.33	.29	.26	6
26	...	...	.95/C	6.50	5.50	34	109	.33	.29	.26	6
27	...	...	.95/C	7.00	6.00	34	110	.42	.37	.35	6
33	...	...	.85/C	5.75	4.75	34	111	.39	.34	.32	6
34	...	...	.85/C	5.75	4.75	34	112	.39	.34	.32	6
35	...	...	.95/C	6.00	5.00	34	117	.39	.34	.32	6
36	...	...	.95/C	6.00	5.00	34	118	.39	.34	.32	6
37	...	...	.95/C	6.00	5.00	34	119	.42	.37	.34	6
43	...	...	.95/C	6.00	5.00	34	120	.42	.37	.34	6
44	...	...	.95/C	6.00	5.00	34	121	.42	.37	.34	6
45	...	...	.95/C	6.00	5.00	34	122	.42	.37	.34	6
46	...	...	.95/C	6.00	5.00	34	124	.25	.22	.20	6
47	...	...	.95/C	6.25	5.25	34	126	.39	.34	.32	6
48	...	...	.95/C	6.35	5.35	34	127	.39	.34	.32	6
49	...	...	.95/C	6.50	5.50	34	132	.33	.29	.26	6
50	...	...	.95/C	6.50	5.50	34	134	.42	.37	.33	6
51	...	...	.95/C	6.50	5.50	34	135	.42	.37	.33	6
52	...	...	.95/C	6.50	5.50	34	137	.25	.22	.20	4
58	...	...	.90/C	5.50	5.00	8	138	.42	.37	.33	4
59	.04	.03	2.25/C	...	...	8	139	.25	.22	.20	4
60	.04	.03	2.25/C	...	...	8	CD-139 (12)	.25	.23	...	N. L.
61	.05	.04	3.75/C	...	...	8	139A	.29	.26	.23	4
62	.05	.04	3.90/C	...	...	8	140	.40	.35	.32	4
63	.06	.05	4.05/C	...	...	8	CD-140 (12)	.42	.37	...	N. L.
66	.05	.04	3.75/C	...	...	8	140A	.45	.41	.36	4
67	.05	.04	3.00/C	...	...	8	154	.23	.22	.18	4
69	.07	.06	5.00/C	...	...	7	155	.39	.35	.33	4
70	.09	.08	6.75/C	...	...	7	156	.54	.48	.43	4
71	.07	.06	5.00/C	...	...	7	157	.33	.29	.26	4
72	.27	.25	19.00/C	9	160	.54	.48	.43	4
73	.30	.26	24.00/C	9	161	.33	.29	.26	4
74	.30	.26	24.00/C	9	163	.33	.29	.26	4
75	.30	.26	24.00/C	9					

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164	.33	.29	.26	...	4
165	.33	.29	.26	...	4
166	.33	.29	.26	...	4
167	.42	.37	.33	...	4
168	.33	.29	.26	...	4
169	.61	.56	.52	...	4
170	.70	.63	.56	...	4
171	.55	.50	.44	...	4
171A	.57	.52	.43	...	4
173	.33	.29	.26	...	4
CD-173 (18)	.33	.29	...	...	N. L.
173P	.33	.32	.30	...	4
174	.40	.35	.32	...	4
CD-174 (18)	.42	.37	...	...	N. L.
175	.33	.29	.26	...	4
CD-175 (12)	.33	.29	...	...	N. L.
176	.40	.35	.32	...	4
CD-176 (8)	.42	.37	...	...	N. L.
177	.33	.29	.26	...	4
178	.42	.37	.33	...	4
179	.33	.29	.26	...	4
182	.70	.63	.56	...	4
182A	.74	.66	.59	...	4
183	.33	.29	.26	...	4
184	.42	.37	.33	...	4
185	.50	.40	.36	...	4
186	.51	.41	.37	...	4
187	.65	.62	.55	...	4
189	.50	.40	.36	...	4
189A	.52	.42	.39	...	4
190	.72	.68	.61	...	4
191	.54	.48	.43	...	4
192	.70	.59	.56	...	4
193	1.02	.89	.83	...	4
195	.54	.48	.43	...	4
196	.70	.59	.56	...	4
197	1.02	.89	.83	...	4
199	.55	.50	.44	...	4
200	.72	.61	.57	...	4
201	1.05	.94	.86	...	4
202	.48	.40	.33	...	N. L.
203P	.48	.40	.33	...	4
CD-203P (12)	.44	.36	...	...	N. L.
205	.95	.85	.78	...	4
206	.04	.03	2.10/C	...	8
207	.05	.04	3.50/C	...	8
208	.07	.06	5.00/C	...	8
209	.07	.06	5.00/C	...	8
212	.16	.14	.13	...	8
213	.18	.16	.14	...	8
214	.20	.17	.15	...	8
215	1.35	1.21	1.07	...	8
216	1.50	1.35	1.28	...	8
217	.18	.14	.12	...	7
218	.20	.15	.13	...	7
219	.22	.16	.14	...	7
222	.46	.41	.36	...	9
223	.50	.45	.39	...	9
225	.21	.20	.18	...	4
226	.35	.32	.30	...	4
261	.04	.03	2.00/C	12.00	9
262	.04	.03	2.20/C	13.00	9
263	.07	.06	5.00/C	...	9
264	.07	.06	5.00/C	...	9
265	.09	.08	6.70/C	...	9
266	.09	.08	6.70/C	...	9
267	.15	.14	12.50/C	...	9
268	.15	.14	12.50/C	...	9

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269	.04	.03	2.40/C	17.00	9
270	.05	.03	2.70/C	19.00	9
271	.07	.06	5.00/C	...	9
272	.07	.06	5.00/C	...	9
273	.09	.08	6.70/C	...	9
274	.09	.08	6.70/C	...	9
275	.15	.14	12.50/C	...	9
276	.15	.14	12.50/C	...	9
340	.05	.04	2.00/C	...	35
341	.05	.04	2.00/C	...	35
342	.05	.04	2.00/C	...	35
343	.03	.02	1.00/C	...	35
344	.03	.02	1.00/C	...	35
345	.05	.04	2.00/C	...	35
346	.05	.04	2.00/C	...	35
347	.05	.04	2.00/C	...	35
348	.03	.02	1.00/C	...	35
349	.03	.02	1.00/C	...	35
351	.34	.31	.28	...	33
352	.36	.33	.30	...	33
353	.35	.32	.29	...	33
354	.37	.34	.31	...	33
355	.35	.32	.29	...	33
356	.37	.34	.31	...	33
357	.33	.30	.27	...	33
358	.34	.31	.28	...	33
359	.34	.31	.28	...	33
360	.05	.04	2.60/C	22.00	33
361	.05	.04	3.00/C	25.00	33
362	.06	.05	3.75/C	30.00	33
363	.07	.06	5.00/C	40.00	33
364	.08	.07	6.50/C	52.00	33
365	.10	.09	8.50/C	63.00	33
366	.12	.10	9.75/C	72.00	33
367	.05	.04	2.60/C	22.00	33
368	.05	.04	3.05/C	24.60	33
369	.06	.05	3.75/C	30.00	33
370	.07	.06	5.00/C	40.00	33
371	.08	.07	6.50/C	52.00	33
372	.10	.09	8.50/C	63.00	33
373	.12	.10	9.75/C	72.00	33
374	.11	.09	8.50/C	63.00	33
375	.12	.10	9.75/C	72.00	33
376	.12	.10	7.50/C	57.50	33
377	.13	.12	8.10/C	62.50	33
378	.14	.11	8.75/C	67.50	33
379	.16	.13	10.00/C	77.50	33
380	.18	.14	11.50/C	89.50	33
381	.20	.15	13.00/C	96.00	33
382	.24	.20	16.00/C	115.00	33
383	.12	.10	7.45/C	57.25	33
384	.13	.12	8.05/C	62.00	33
385	.14	.11	8.65/C	67.00	33
386	.16	.10	9.95/C	77.00	33
387	.18	.14	11.40/C	89.00	33
388	.20	.15	13.00/C	96.00	33
389	.24	.20	16.00/C	115.00	33
390	.12	.10	7.40/C	57.00	33
391	.13	.12	7.90/C	61.80	33
392	.14	.11	8.65/C	66.50	33
393	.16	.13	9.85/C	76.50	33
394	.18	.14	11.40/C	88.50	33
395	.20	.15	13.00/C	96.00	33
396	.24	.20	16.00/C	115.00	33
397	.03	.02	1.65/C	13.20	33
398	.03	.02	1.80/C	13.60	33
399	.03	.02	1.80/C	13.90	33
400	.03	.02	1.85/C	14.20	33
401	.03	.02	1.85/C	14.90	33
402	.04	.03	2.00/C	15.60	33
403	.04	.03	2.10/C	16.40	33
405	.03	.02	1.85/C	15.10	33

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406	.04	.03	2.00/C	15.60	33	603-8	.57	.52	.50	...	12
407	.04	.03	2.10/C	16.20	33	603-9	.62	.57	.55	...	12
408	.04	.03	2.20/C	16.70	33	603-10	.67	.62	.60	...	12
409	.04	.03	2.30/C	17.30	33	604-1	.30	.25	.21	...	12
410	.04	.03	2.40/C	17.90	33	604-2	.35	.30	.26	...	12
412	.05	.04	2.45/C	18.80	33	604-3	.39	.34	.30	...	12
413	.05	.04	2.45/C	19.10	33	604-4	.48	.43	.39	...	12
414	.05	.04	2.50/C	19.60	33	604-5	.51	.46	.42	...	12
415	.05	.04	2.60/C	20.50	33	604-6	.57	.52	.48	...	12
416	.06	.05	2.70/C	21.30	33	604-7	.64	.59	.55	...	12
417	.06	.05	2.80/C	22.00	33	604-8	.73	.69	.65	...	12
418	.04	.03	2.20/C	17.00	33	604-9	.80	.73	.69	...	12
419	.04	.03	2.30/C	17.90	33	604-10	.85	.79	.75	...	12
420	.05	.04	2.45/C	19.00	33	605-1	.28	.23	.18	...	12
421	.05	.04	2.90/C	22.70	33	605-2	.32	.27	.23	...	12
422	.05	.04	3.30/C	26.60	33	605-3	.35	.30	.26	...	12
425	.05	.04	2.40/C	18.30	33	605-4	.42	.37	.33	...	12
426	.05	.04	2.45/C	19.20	33	605-5	.47	.42	.38	...	12
427	.05	.04	2.60/C	19.40	33	605-6	.52	.47	.43	...	12
428	.05	.04	3.00/C	24.20	33	605-7	.58	.53	.49	...	12
429	.06	.05	3.50/C	28.00	33	605-8	.63	.58	.54	...	12
430	.06	.05	3.90/C	32.00	33	605-9	.67	.62	.58	...	12
432	.05	.04	2.80/C	22.60	33	605-10	.74	.69	.63	...	12
433	.05	.04	2.90/C	23.00	33	606-1	.25	.21	.17	...	12
434	.05	.04	3.00/C	24.00	33	606-2	.29	.25	.21	...	12
435	.06	.05	3.50/C	28.00	33	606-3	.32	.29	.24	...	12
436	.06	.05	3.90/C	31.80	33	606-4	.38	.35	.30	...	12
437	.07	.06	4.50/C	36.20	33	606-5	.44	.40	.36	...	12
438	.07	.06	5.00/C	41.00	33	606-6	.47	.43	.39	...	12
452	.17	.16	.15	...	23	606-7	.50	.48	.44	...	12
475	.17	.16	.15	...	23	606-8	.55	.50	.48	...	12
476	.10	.07	.06	...	23	606-9	.60	.55	.52	...	12
500	.35	.32	.30	...	28	606-10	.65	.60	.57	...	12
505	.35	.32	.30	...	28	607-1	.30	.24	.20	...	12
507	.39	.33	.30	...	28	607-2	.32	.28	.24	...	12
509	.45	.42	.39	...	28	607-3	.35	.31	.27	...	12
552	.25	.20	.18	...	23	607-4	.45	.39	.35	...	12
560	.06	.05	4.20/C	...	28	607-5	.47	.42	.38	...	12
561	.05	.04	3.60/C	...	28	607-6	.53	.49	.45	...	12
562	.27	.24	.22	...	28	607-7	.58	.54	.50	...	12
564	.10	.09	8.10/C	...	28	607-8	.63	.59	.55	...	12
565	.12	.11	.09	...	28	607-9	.68	.64	.60	...	12
566	.08	.07	6.30/C	...	28	607-10	.75	.70	.65	...	12
567	.10	.09	8.10/C	...	28	608-1	.25	.21	.17	...	12
568	.09	.08	.07	...	28	608-2	.29	.25	.21	...	12
569	.08	.07	6.60/C	...	28	608-3	.32	.29	.24	...	12
570	.08	.07	6.60/C	...	28	608-4	.38	.35	.30	...	12
571	.35	.33	30.00/C	...	28	608-5	.44	.40	.36	...	12
572	.10	.09	8.10/C	...	28	608-6	.47	.43	.39	...	12
573	.11	.10	9.25/C	...	28	608-7	.50	.48	.44	...	12
574	.35	.32	.30	...	28	608-8	.55	.50	.48	...	12
575	.10	.07	.06	...	23	608-9	.60	.55	.52	...	12
576	.35	.32	.30	...	28	608-10	.65	.60	.57	...	12
602-1	.25	.21	.17	...	12	609-1	.26	.22	.18	...	12
602-2	.29	.25	.21	...	12	609-2	.30	.26	.23	...	12
602-3	.32	.29	.24	...	12	609-3	.33	.30	.26	...	12
602-4	.38	.35	.30	...	12	609-4	.39	.36	.32	...	12
602-5	.44	.40	.36	...	12	609-5	.45	.41	.38	...	12
602-6	.47	.43	.39	...	12	609-6	.47	.43	.39	...	12
602-7	.50	.48	.44	...	12	609-7	.50	.48	.44	...	12
602-8	.55	.50	.48	...	12	609-8	.55	.50	.48	...	12
602-9	.60	.55	.52	...	12	609-9	.60	.55	.52	...	12
602-10	.65	.60	.57	...	12	609-10	.65	.60	.57	...	12
603-1	.26	.22	.18	...	12	610	.05	.03	.02	10.00	30
603-2	.30	.26	.23	...	12	611	.07	.05	.04	25.00	30
603-3	.33	.30	.26	...	12	612	.09	.07	.05	32.00	30
603-4	.39	.36	.32	...	12	613	.05	.04	.03	15.00	30
603-5	.45	.41	.38	...	12	614	.07	.05	.04	25.00	30
603-6	.48	.44	.41	...	12	615	.05	.04	.03	15.00	30
603-7	.52	.50	.46	...	12	616	.07	.05	.04	26.00	30

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Catalog Number	1-19 Each	20-99 Each	100-240 Each	1M-4M Per M	Page #
617	.07	.05	.04	25.00	30
618	.07	.06	.05	35.00	30
619	.05	.04	.03	15.00	30
620	.05	.04	.03	15.00	30
621	.12	.10	.08	70.00	30
622	.10	.09	.07	55.00	30
623	.10	.09	.07	55.00	30
624	.10	.09	.07	55.00	30
625	.11	.10	.08	65.00	30
626	.10	.09	.07	55.00	30
627	.10	.09	.07	55.00	30
628	.05	.04	.03	15.00	30
629	.05	.04	.03	15.00	30
630	.07	.05	.04	25.00	30
631	.07	.05	.04	25.00	30
633	.15	.13	.11	90.00	30
637	.24	.21	.19	...	21
638	.26	.24	.22	...	21
639	1.20	1.10	.93	...	21
640	.65	.60	.55	...	21
641	.65	.60	.55	...	21
642	.68	.62	.57	...	21
643	.65	.60	.55	...	21
644	.65	.60	.55	...	21
645	.32	.28	.26	...	21
646	.32	.28	.26	...	21
647	.30	.26	.24	...	21
648	.30	.26	.24	...	21
649	.80	.70	.65	...	21
650	1.35	1.20	1.10	...	21
651	.60	.55	.52	...	23
653	.45	.40	.39	...	23
654	.60	.55	.50	...	23
655	.49	.44	.41	...	23
656	.65	.60	.55	...	23
657	.68	.63	.57	...	23
658	1.00	.90	.85	...	23
659	1.05	.92	.87	...	23
660	.85	.80	.75	...	21
661	.75	.70	.65	...	21
662	.75	.70	.65	...	21
663	.70	.67	.64	...	21
664	.75	.70	.67	...	21
665	.70	.67	.64	...	21
666	.45	.41	.38	...	21
667	.45	.41	.38	...	21
668	.80	.75	.70	...	21
669	.75	.70	.67	...	21
670	.40	.36	.34	...	21
671	.45	.41	.38	...	21
672	.35	.32	.30	...	21
673	.35	.32	.30	...	21
674	.40	.37	.35	...	21
675	.20	.18	.16	...	21
676	.30	.28	.26	...	23
677	.80	.75	.70	...	21
678	.80	.75	.70	...	21
679	.45	.41	.38	...	21
680	.45	.41	.38	...	21
681	.38	.35	.32	...	21
682	.45	.41	.38	...	21
683	.45	.41	.38	...	21
684	.65	.57	.53	...	21
685	.45	.38	.36	...	21
686	.55	.48	.44	...	21
687	.67	.61	.58	...	21
688	1.35/C	9.50	21
689	1.35/C	9.50	21
690	.50	.45	.43	...	21
691	.77	.71	.68	...	21

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-15M Per M	Page #
692	.20	.17	.15	21
693	.20	.17	.15	...	...	21
694	.25	.20	.18	...	...	21
695	.20	.17	.15	...	...	21
696	.23	.18	.16	...	...	21
697	.23	.18	.16	...	...	21
698	.25	.21	.19	...	...	21
699	.23	.18	.16	...	...	21
700	.85	.80	.75	...	...	26
701	1.35	1.25	1.10	...	...	26
702	2.65	2.50	2.00	...	...	26
703	.48	.45	.40	...	...	26
704	.85	.80	.75	...	...	26
1101	.39	.33	.29	...	...	6
1103	.39	.33	.29	...	...	6
1104	.39	.33	.29	...	...	6
1109	.39	.33	.29	...	...	6
1110	.39	.33	.29	...	...	6
1113	.39	.33	.29	...	...	6
1114	.39	.33	.29	...	...	6
1116	.39	.33	.29	...	...	6
1119	.39	.33	.29	...	...	6
1120	.44	.42	.37	...	...	6
1121	.44	.42	.37	...	...	6
1125	.39	.33	.29	...	...	6
1132	.39	.33	.29	...	...	6
1133	.44	.42	.37	...	...	6
1134	.39	.33	.29	...	...	6
1135	.39	.33	.29	...	...	6
1139	.28	.25	.23	...	...	2
1142	.28	.25	.23	...	...	6
1144	.28	.25	.23	...	...	6
1145	.39	.33	.29	...	...	6
1162	.66	.59	.54	...	...	2
1173	.39	.33	.29	...	...	2
1175	.39	.33	.29	...	...	2
1179	.39	.33	.29	...	...	2
1185	.55	.50	.45	...	...	2
1186	.53	.48	.44	...	...	2
1189	.44	.42	.37	...	...	2
1191	.50	.45	.40	...	...	2
1194	.55	.53	.48	...	...	2
1195	.55	.53	.48	...	...	2
1198	.61	.56	.52	...	...	2
1199	.61	.56	.52	...	...	2
1200	...	...	1.60C	14.20	...	34
1201	...	...	1.60C	14.20	...	34
1202	...	...	.60C	4.25	...	N. L.
1203	...	...	8.40C	60.00	...	35
1204	...	...	.60C	4.25	...	13
1204-10	.30	.27	.25	...	...	13
1204-12	.40	.35	.31	...	...	13
1204-19	.50	.45	.41	...	...	13
1204-20	.60	.54	.49	...	...	13
1204-22	.65	.57	.51	...	...	13
1204-28	.70	.65	.58	...	...	13
1204-38	1.00	.94	.82	...	...	13
1209	...	...	7.00C	48.00	...	35
1210	...	...	1.60C	14.20	...	34
1213	1.25	1.00	...	...	...	19
1214	1.50	19
1215	5.00C	32.00	...	35
1216	7.00C	58.00	...	35
121760C	4.00	...	N. L.
1218	.05	.04	3.00C	23.00	...	34

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1219	1.25C	7.90	...	34
1220-1	.09	.08	.07	15
1220-2	.12	.11	.09	15
1220-3	.15	.13	.12	15
1220-4	.16	.14	.13	15
1220-5	.17	.15	.14	...	...	15
1220-6	.20	.18	.16	...	...	15
1220-7	.22	.19	.17	...	...	15
1220-8	.23	.20	.18	...	...	15
1220-9	.25	.24	.22	...	...	15
1220-10	.27	.25	.24	...	...	15
1221	...	...	.75C	6.50	...	35
1222	...	...	.75C	6.50	...	N. L.
1223	...	...	1.60C	14.20	...	34
1224	...	...	1.75C	15.00	...	34
1226	...	...	2.00C	16.00	...	34
1228	...	...	.75C	5.00	...	N. L.
1229	...	...	.60C	4.00	...	N. L.
1230	...	...	1.75C	15.00	...	34
1231	...	...	2.00C	16.00	...	34
1232	...	...	5.00C	32.00	...	35
1236	...	...	1.75C	12.00	10.00	19
1237	...	...	1.75C	12.00	10.00	19
1238	...	...	1.75C	12.00	10.00	19
1239-10	.50	.46	.42	...	...	13
1239-12	.60	.55	.51	...	...	13
1239-19	.85	.80	.76	...	...	13
1239-20	.90	.85	.81	...	...	13
1239-22	.95	.90	.86	...	...	13
1239-28	1.20	1.10	1.03	...	...	13
1239-38	1.50	1.40	1.35	...	...	13
1240	...	...	1.60/C	13.00	...	34
1241	...	...	.75/C	4.25	...	N. L.
1242	...	...	1.60/C	13.00	...	34
1243	...	...	2.50/C	19.00	...	34
1244	...	...	1.80/C	13.50	...	34
1245	...	...	2.00/C	14.00	...	34
1246	...	...	2.20/C	17.00	...	34
1247	...	...	2.20/C	17.00	...	34
1248	...	...	5.00/C	32.00	...	35
1250	...	...	.60/C	4.00	...	N. L.
1253	...	...	1.25/C	8.50	...	14
1254	...	...	1.35/C	10.00	...	14
1255	...	...	1.35/C	10.00	...	14
1256	...	...	3.30/C	21.00	...	14
1257	...	...	3.75/C	24.00	...	14
1258	...	...	3.75/C	24.00	...	14
1259	...	...	5.50/C	40.00	...	35
1260	...	...	5.50/C	40.00	...	35
1266	...	...	.75/C	4.25	...	N. L.
1268	...	...	.75/C	4.25	...	13
1268-10	.40	.35	.31	...	...	13
1268-12	.50	.45	.41	...	...	13
1268-19	.60	.57	.51	...	...	13
1268-20	.75	.67	.60	...	...	13
1268-22	.80	.73	.65	...	...	13
1268-28	.85	.76	.68	...	...	13
1268-38	1.35	1.15	1.00	...	...	13
1270	.55	.52	.49	...	...	N. L.
1271	.18	.15	.13	N. L.
127675/C	4.25	...	N. L.
1277	5.00/C	32.00	...	35
129475/C	4.25	...	N. L.
1301	3.95	36
1302	4.50	36

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
1304	1.50	36
1305	1.50	36
1306	1.50	...	...	...	36
1307	1.50	...	...	...	36
1309	1.25	...	...	...	36
1310	2.50	...	...	...	36
1311	2.50	...	...	...	36
1312	2.50	...	...	...	36
1313	2.50	...	...	...	36
1315	1.25	...	...	...	36
1316	1.25	...	...	...	36
1321	.35	...	...	...	36
1322	.50	...	...	...	19
1323	.75	...	...	...	19
1324	1.50	...	...	...	36
1325	1.50	...	...	...	36
1326	1.50	...	...	...	36
1327	2.00	...	...	...	36
1328	15.00	...	...	...	36
1330	13.00	...	...	...	26
1331	2.20	...	...	...	26
1332	2.20	...	...	...	26
1333	2.20	...	...	...	26
1334	2.20	...	...	...	26
1335	2.20	...	...	...	26
1336	2.20	...	...	...	26
1337	2.20	...	...	...	26
1338	2.20	...	...	...	26
1400	.75	.68	.60	...	20
1401	.82	.74	.66	...	20
1402	.64	.54	.48	...	20
1407	...	...	2.60/C	22.00	27
1408	...	...	2.25/C	17.00	27
1409	...	...	2.50/C	19.00	27
1410	.15	.10	.09	...	27
1411	.15	.10	.09	...	27
1412	...	...	2.50/C	19.00	27
1414	...	...	2.00/C	18.00	27
1415	...	...	2.00/C	18.00	27
1416	.15	.10	.09	...	27
1417	.20	.19	.17	...	27
1420	.15	.10	.09	...	27
1422	.15	.10	.09	...	27
1427	.20	.18	.16	...	27
1449	...	...	3.00/C	22.50	27
1450	.06	.05	4.20/C	33.00	32
1450A	.06	.05	4.20/C	33.00	32
1450B	.07	.06	5.25/C	38.00	32
1450C	.08	.07	6.30/C	42.00	32
1450D	.11	.10	9.20/C	60.00	32
1450E	.13	.12	11.20/C	69.00	32
1451A	.06	.05	4.20/C	33.00	32
1451B	.07	.06	5.25/C	38.00	32
1451C	.08	.07	6.30/C	42.00	32
1451D	.10	.09	8.40/C	55.00	32
1451E	.11	.10	9.20/C	60.00	32
1452A	.09	.08	6.70/C	48.00	32
1452B	.10	.09	7.85/C	58.00	32
1452C	.12	.11	9.70/C	60.00	32
1452D	.12	.11	10.40/C	68.00	32
1452E	.14	.13	12.50/C	80.00	32
1453	.30	.25	.21	...	27
1454A	.05	.04	3.25/C	27.00	32
1454B	.06	.05	4.30/C	31.00	32
1454C	.06	.06	5.50/C	39.00	32
1454D	.07	.07	6.30/C	45.00	32
1454E	.08	.08	7.20/C	52.00	32
1455	.08	.07	6.00/C	45.00	27
1456	3.00/C	23.00	27
1457A	.05	.04	3.25/C	27.00	32

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1457B	.06	.05	4.30C	31.00	...	32
1457C	.06	.06	5.50C	39.00	...	32
1457D	.07	.07	6.30C	45.00	...	32
1457E	.08	.08	7.20C	52.00	...	32
1458	.05	.04	3.25C	24.00	...	27
1459	.07	.06	5.00	31.00	...	27
1464	.40	.38	.35	...	...	33
1465	.40	.38	.35	...	...	33
1466	.40	.38	.35	...	...	33
1467	.40	.38	.35	...	...	33
1470	.30	.25	...	...	...	27
1471	.05	.04	3.50C	25.00	...	27
1472	.05	.04	3.50C	25.00	...	27
1473	.05	.04	3.50C	25.00	...	27
1474A	.06	.05	4.20C	33.00	...	32
1474B	.07	.06	5.25C	38.00	...	32
1474C	.08	.07	6.30C	42.00	...	32
1474D	.11	.10	9.20C	64.00	...	32
1474E	.14	.13	11.20C	69.00	...	32
1480	.05	.04	3.25C	27.00	...	32
1481	.06	.05	4.30C	31.00	...	32
1482	.06	.06	5.50C	39.00	...	32
1483	.07	.07	6.30C	45.00	...	32
1484	.08	.08	7.20C	52.00	...	32
1489	...	...	2.50C	26.00	...	27
1490	.05	.04	2.60C	22.00	...	33
1491	.05	.04	2.90C	24.20	...	33
1492	.06	.05	3.75C	29.50	...	33
1493	.07	.06	4.85C	39.50	...	33
1494	.08	.07	6.40C	51.50	...	33
1496	.42	.29	.19	...	...	33
1497	.07	.06	5.00C	32.00	...	27
1498CP	.09	.08	7.00C	50.00	...	19
1498PK	1.40	...	...	...	N. L.	19
1498SP	.10	.09	8.00C	55.00	...	19
1499FT	...	...	1.50C	11.00	9.90	19
1499PK	1.50	...	...	...	...	...
1499SP	...	...	1.75C	12.00	10.75	19
1500	...	...	1.75C	15.70	13.20	19
1501	...	...	3.95C	28.00	27.00	41
1502	...	...	1.80C	10.00	9.00	39
1503	...	...	2.80C	16.00	14.00	39
1504	...	...	3.00C	17.00	15.00	39
1505	...	...	2.70C	21.00	19.00	39
1506	...	...	4.10C	20.00	18.00	40
1507	...	...	4.25C	21.00	18.00	40
1508	...	...	2.00C	13.00	11.00	39
1509	...	...	2.80C	16.00	14.00	40
1510	...	...	4.30C	20.00	18.00	40
1511	...	...	4.25C	21.00	18.00	40
1512	...	...	3.80C	17.00	16.00	41
1514	...	...	3.80C	16.00	15.00	39
1515	...	...	3.60C	18.00	16.00	40
1518	...	...	8.80C	75.00	65.00	41
1519	...	...	2.80C	17.00	15.00	39
1520	...	...	1.80C	10.00	9.00	39
1521	...	...	4.25C	21.00	19.00	41
1522	...	...	2.30C	17.00	15.00	41
1523	...	...	5.90C	52.00	48.00	40
1524	...	...	5.20C	40.00	36.00	40
1525	...	...	5.20C	25.00	23.00	40
1526	...	...	2.70C	13.00	12.00	40
1527	...	...	5.50C	30.00	27.00	39
1528	...	...	3.50C	15.00	13.00	39
1529	...	...	6.00C	35.00	32.00	41
1530	...	...	3.50C	17.00	15.00	41
1531	5.00C	27.00	25.00	40
1532	2.30C	17.00	15.00	39
1533	2.70C	15.00	13.00	40
1534	5.40C	31.00	28.00	41

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1535	9.50C	67.00	55.00	35
1536	10.00C	71.00	59.00	35
1537	9.50C	64.00	52.00	35
1538	3.50C	21.00	19.00	39
1539	...	...	3.50C	21.00	19.00	39
1540	...	...	2.70C	20.00	18.00	39
1541	...	...	5.25C	35.00	32.00	40
1542	...	...	5.25C	30.00	27.00	41
1543	...	...	3.90C	25.00	23.00	39
1544	...	...	5.80C	40.00	37.00	41
1545	...	...	5.00C	33.00	31.00	41
1546	...	...	8.00C	41.00	38.00	32
1547	.05	.04	3.80C	33.00	...	32
1547A	.06	.05	4.00C	34.00	...	32
1547B	.07	.06	4.95C	39.00	...	32
1547C	.08	.07	6.00C	43.00	...	32
1547D	.10	.09	8.70C	52.00	...	32
1547E	.12	.11	10.00C	61.00	...	32
1548A	.06	.05	3.90C	33.00	...	32
1548B	.07	.06	4.95C	39.00	...	32
1548C	.08	.07	6.00C	43.00	...	32
1548D	.09	.08	7.00C	46.00	...	32
1548E	.11	.10	8.40C	52.00	...	32
1548F	.12	.11	10.40C	61.00	...	32
1549A	.08	.07	6.30C	47.00	...	32
1549B	.10	.09	8.00C	55.00	...	32
1549C	.11	.10	9.20C	63.00	...	32
1549D	.13	.12	10.90C	69.00	...	32
1549E	.16	.15	14.20C	83.00	...	32
1550	...	...	6.50C	40.00	37.00	41
1551	...	...	5.00C	31.00	28.00	41
1552	...	...	5.80C	42.00	39.00	41
1553	...	...	2.85C	18.00	16.00	39
1554	...	...	2.85C	18.00	16.00	39
1555	...	...	5.00C	29.00	26.00	N. L.
1556	.10	.09	7.00C	55.00	...	30
1557	...	...	3.50C	27.00	24.00	40
1558	...	...	3.70C	28.00	25.00	35
1559	...	...	2.50C	15.00	13.00	39
1560	...	...	4.75C	38.00	34.00	32
1561	...	...	5.80C	43.00	39.00	32
1562	...	...	2.20C	15.00	13.00	39
1563	...	...	3.50C	27.00	24.00	35
1564	.12	.11	10.50C	75.00	...	30
1565	.09	.08	7.00C	60.00	...	30
1566	.10	.09	8.00C	65.00	...	30
1567	.09	.08	8.00C	60.00	...	30
1568	.09	.08	7.00C	60.00	...	30
1569	.10	.09	8.00C	65.00	...	30
1570	.09	.08	7.00C	60.00	...	30
1571	.09	.08	7.00C	60.00	...	30
1572	...	...	2.10C	10.00	9.00	39
1573	...	...	2.10C	11.00	10.00	39
1574	...	...	2.40C	13.00	12.00	41
1575	...	...	2.50C	14.00	13.00	41
1576	...	...	4.20C	21.00	19.00	41
1577	...	...	4.00C	21.00	19.00	40
1578	...	...	5.00C	23.00	20.00	40
1579	...	...	6.00C	29.00	26.00	41
1580	...	...	7.00C	36.00	33.00	41
1581	...	...	7.00C	47.00	44.00	41
1582	...	...	4.10C	22.00	20.00	40
1583	...	...	3.50C	17.00	15.00	41
1584	...	...	3.50C	17.00	15.00	39
1585	...	...	7.50C	59.00	54.00	39
1586	...	...	3.80C	22.00	20.00	41
1587	...	...	5.00C	26.00	23.00	35
1588	...	...	3.25C	21.00	19.00	40
1589	.07	.06	5.50C	45.00	40.00	32
1590	.07	.06	5.75C	47.00	43.00	32

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

ALL CATALOG ITEMS ARE AVAILABLE FOR IMMEDIATE DELIVERY FROM STOCK.

Cat. #	1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-15M Per M	Page #
1591	.07	.06	5.85C	46.75	41.50	32
1592	...	...	3.00C	23.00	20.00	40
1593	...	...	2.50C	16.00	14.00	39
1594	...	...	4.10C	35.00	33.00	40
1595	...	...	4.00C	24.00	22.00	35
1596	.09	.08	6.90C	57.00	48.00	32
1598	...	...	2.40C	16.00	14.00	39
1599	...	...	5.50C	35.00	32.00	40
1600	...	...	2.50C	18.00	...	29
1601	...	...	3.50C	28.00	...	29
1602	...	...	6.50C	41.00	38.00	41
1604	.10	.09	8.00C	50.00	...	32
1605	.10	.09	8.00C	52.00	...	32
1608	.11	.10	9.70C	65.00	...	32
1609	.13	.12	11.00C	73.00	...	32
1610	...	...	4.50C	31.00	28.00	40
1611	...	...	4.50C	31.00	28.00	40
1612	...	...	6.00C	42.00	38.00	32
1613	...	...	3.00C	14.00	13.00	41
1615	.16	.15	14.00C	...	...	29
1616	.16	.15	14.00C	...	...	29
1617	.17	.16	15.00C	...	...	29
1618	.17	.16	15.00C	...	...	29
1620	.08	.07	6.50C	43.00	...	32
1621	.08	.07	6.50C	45.00	...	32
1622	.10	.09	8.00C	47.00	...	32
1623	.11	.10	9.50C	49.00	...	32
1624	.11	.10	9.50C	52.00	...	32
1625	.13	.12	11.00C	65.00	...	32
1627	.09	.08	7.00C	43.00	...	32
1628	.09	.08	7.00C	48.00	...	32
1629	.11	.10	9.50C	50.00	...	32
1630	.14	.13	12.50C	83.00	...	32
1631	...	...	4.00C	20.00	18.00	41
1632	...	...	4.00C	20.00	18.00	41
1633	...	...	3.50C	19.00	17.00	40
1634	...	...	4.75C	25.00	23.00	40
1635	.13	.12	11.00C	67.00	...	32
1636	.19	.18	17.00C	118.00	...	32
1637	.20	.19	18.00C	129.00	...	32
1638	.25	.23	.21	140.00	...	32
1639	.26	.24	.22	150.00	...	32
1641	...	...	1.60C	6.00	...	15
1642	.35	.30	.26	160.00	...	32
1643	.40	.35	.30	170.00	...	32
1644	.40	.35	.30	.23	...	33
1645	.45	.40	.33	.24	...	33
1646	.50	.45	.37	.26	...	33
1647	.42	.38	.35	...	...	30
1648	.50	.45	.40	...	...	30
1649	.58	.51	.45	...	...	30
1650	...	...	6.30C	41.00	37.00	32
1651	...	...	6.30C	46.00	42.00	32
1652	.11	.10	9.50C	73.00	...	32
1653	.08	.07	6.50C	43.00	...	32
1654	.10	.09	8.50C	58.00	...	32
1655	.10	.09	8.50C	67.00	...	32
1656	.10	.09	6.30C	43.00	...	32
1656A	.11	.10	9.00C	51.00	...	32
1656B	.13	.12	11.00C	63.00	...	32
1657	.08	.07	6.00C	41.00	...	32
1657A	.10	.09	8.40C	50.00	...	32
1657B	.12	.11	10.40C	61.00	...	32
1658	.06	.05	4.00C	30.00	...	35
1660	.18	.17	16.00C	...	...	29
1661	.18	.17	16.00C	...	...	29
1670	.18	.17	16.00C	...	...	29
1671	.18	.17	16.00C	...	...	29
1680	.13	.12	11.00C	...	...	29
1681	.14	.13	12.00C	...	...	29

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Catalog Number	1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	5M-15M Per M	Page #
1690	.14	.13	12.00C	...	...	...
1691	.15	.14	13.00C	...	...	...
1692A	.06	.05	3.90C	33.00	...	...
1692B	.07	.06	5.00C	39.00	...	...
1692C	.08	.07	6.00C	45.00	...	...
1692D	.10	.09	8.40C	52.00	...	...
1692E	.12	.11	10.40C	61.00	...	...
1700	.25	.22	.20	...	...	...
1701	.31	.29	.27	...	...	...
1702	.45	.42	.38	...	...	...
1703	.15	.14	.13	...	...	...
1707	23.50	...	...	...	...	...
1713	25.00	...	...	...	...	...
1714	1.50	1.25	...	...	...	...
1715	1.50	1.25	...	...	...	...
1716	1.50	1.25	...	...	...	...
1717	1.50	1.25	...	...	...	...
1719	1.50	1.25	...	...	...	...
1721	6.50	5.00	...	...	...	...
1722	1.50	1.25	...	...	...	...
1723	17.00	...	...	...	...	...
1726	1.50	1.25	...	...	...	...
1730	.33	.30	.27	...	...	...
1730EP	.44	.41	.37	...	...	...
1731	.30	.27	.25	...	...	...
1732	1.30	1.17	1.05	...	...	...
1733	1.90	1.68	1.58	...	...	...
1734	.39	.35	.33	...	...	...
1735	.53	.48	.43	...	...	...
1736	1.65	1.50	1.40	...	...	...
1737	.39	.35	.33	...	...	...
1738	.45	.41	.38	...	...	...
1739	1.30	1.15	1.07	...	...	...
1740	.55	.50	.46	...	...	...
1740EP	.75	.68	.63	...	...	...
1741	.62	.56	.52	...	...	...
1741EP	.90	.80	.75	...	...	...
1742	1.65	1.48	1.38	...	...	...
1742EP	3.00	2.75	2.55	...	...	...
1743	.40	.36	.32	...	...	...
1744	.45	.40	.36	...	...	...
1745	1.20	1.08	.97	...	...	...
1746	.55	.50	.45	...	...	...
1746EP	.78	.63	.60	...	...	...
1747	.59	.53	.48	...	...	...
1747EP	.84	.76	.71	...	...	...
1748	1.50	1.35	1.21	...	...	...
1748EP	2.65	2.40	2.25	...	...	...
1749	.48	.43	.40	...	...	...
1749EP	.74	.67	.59	...	...	...
1750	.25	.22	.20	...	...	...
1751	.31	.28	.26	...	...	...
1752	.25	.22	.20	...	...	...
1752EP	.46	.41	.37	...	...	...
1753	.37	.33	.30	...	...	...
1753EP	.65	.58	.52	...	...	...
1754	.55	.51	.46	...	...	...
1754EP	.80	.75	.70	...	...	...
1756	.86	.73	.72	...	...	...
1756EP	1.60	1.45	1.35	...	...	...
1757	2.85	2.55	2.38
1757EP	5.25	4.75	4.40
1758	.12	.10	.09
1758EP	.18	.16	.14
1759	.17	.15	.14

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
1759EP	.30	\$.27	\$.25	17
1760	.21	.19	.18	17
1760EP	.33	.30	.28	17
1761	.39	.35	.33	16
1762	.86	.78	.72	16
1763	1.90	1.68	1.58	16
1765	.46	.41	.37	17
1766	.62	.56	.50	17
1767	1.30	1.17	1.05	17
1768	2.13	1.92	1.73	17
1770	.57	.51	.46	17
1771	1.75	1.57	1.41	17
1772	2.72	2.43	2.21	17
1773	.62	.56	.50	16
1773EP	.95	.85	.80	16
1774	.72	.65	.58	16
1774EP	1.25	1.10	.95	16
1775	1.05	.94	.85	16
1775EP	1.90	1.75	1.60	16
1776	1.20	1.10	1.05	16
1776EP	2.25	2.00	1.90	16
1777	1.15	1.03	.93	16
1777EP	2.13	1.92	1.73	16
1778	1.90	1.68	1.58	16
1778EP	3.90	3.55	3.30	16
1779	1.20	1.10	1.05	16
1779EP	2.25	2.00	1.90	16
1780	1.30	1.15	1.08	16
1780EP	1.80	1.60	1.50	16
1781	2.00	1.80	1.65	16
1781EP	3.90	3.55	3.30	16
1782	.68	.62	.56	17
1783	.82	.74	.67	17
1783EP	1.40	1.25	1.15	17
1784	.72	.65	.59	17
1785	.42	.38	.34	17
1786	.84	.76	.72	17
1787	2.10	1.89	1.78	17
1788	.93	.84	.76	17
1789	.96	.87	.80	17
1790	.44	.40	.34	17
1791	.72	.65	.63	17
1792	1.95	1.75	1.65	17
1793	3.85	3.45	3.25	17
1794	2.70	2.43	2.29	17
1795	5.60	5.00	4.70	17
1796EP	.40	.36	.34	17
1797EP	.66	.61	.55	17
1798EP	.70	.63	.59	17
1801EP	.70	.63	.59	17
1802EP	1.40	1.26	1.19	17
1803EP	.72	.65	.60	17
1804EP	1.25	1.13	1.06	17
1805EP	2.06	1.85	1.74	17
1806	.43	.39	.36	17
1807	1.44	1.30	1.19	17
1808EP	2.00	1.80	1.70	17
1809EP	3.17	2.86	2.67	17
1810	1.00	1.00	.85	24
1811	.80	.80	.65	24
1812	.16	.14	.12	16
1813	.35	.31	.29	16
1814	.66	.61	.55	17
1814EP	.90	.81	.76	17
1815	.40	.32	.29	N. L.
1816	1.21	1.09	1.02	17
1816EP	1.95	1.75	1.65	17
1817	1.25	1.15	1.05	17
1817EP	2.10	1.90	1.75	17
1818	.68	.61	.55	16

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
1819	.92	.83	.76	16
1820	.99	.91	.80	16
1821	1.85	1.85	1.50	N. L.
1824	.45	.40	.38	N. L.
1825	.70	.63	.59	16
1826	.75	.68	.63	16
1827	1.60	1.44	1.36	16
1828	1.20	1.08	1.02	16
1829	1.90	1.71	1.61	16
1830	4.27	3.82	3.57	16
1831	3.25	2.90	2.76	16
1832	1.65	1.48	1.40	16
1833	5.05	4.55	4.29	16
1834	1.60	1.44	1.36	16
1835	.36	.32	.29	16
1835EP	.56	.50	.46	16
1836	1.01	.91	.85	16
1837	1.10	.99	.92	16
1838	.45	.41	.38	16
1839	.55	.50	.46	16
1840	.34	.32	.30	29
1841	.34	.32	.30	29
1842	.37	.35	.33	29
1843	.37	.35	.33	29
1844	.48	.43	.38	16
1845	.60	.54	.51	16
1846	1.12	1.01	.93	16
1847	1.24	1.12	1.02	16
1848	.60	.54	.51	16
1849	.37	.35	.33	29
1850	.37	.35	.33	29
1851	.43	.40	.38	29
1852	.43	.40	.38	29
1853	.88	.79	.72	16
1854	1.75	1.57	1.48	16
1855	1.94	1.75	1.61	16
1856	2.30	2.07	1.95	16
1857	1.08	.97	.89	16
1858	1.52	1.37	1.28	16
1859	2.30	2.07	1.95	16
1860	.29	\$.28	\$.27	29
1861	.29	.28	.27	29
1862	.29	.28	.27	29
1863	.29	.28	.27	29
1864	3.82	3.44	3.23	16
1865	4.50	4.05	3.82	16
1866	2.20	1.98	1.87	16
1867	3.08	2.77	2.59	16
1868	.60	.54	.51	16
1868EP	1.16	1.04	.97	16
1869	.76	.68	.63	16
1869EP	1.42	1.28	1.19	16
1870	1.32	1.19	1.10	16
1871	1.67	1.50	1.40	16
1872	1.89	1.71	1.57	16
1873	3.60	3.24	3.06	16
1874	2.70	2.43	2.29	16
1875	5.44	4.90	4.59	16
1876	2.03	1.83	1.71	16
1877	2.20	1.99	1.86	16
1878	.84	.76	.71	16
1879	1.04	.94	.87	16
1880	.60	.55	.50	29
1881	2.50	2.25	2.10	16
1882	2.50	2.25	2.10	16
1883	5.20	4.68	4.42	16
1884	4.52	4.05	3.82	16
1885	9.30	8.40	7.84	16
1886	2.55	2.34	2.18	16
1887	1.00	.95	.85	16

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
1888	1.30	1.15	1.10	16
1889	2.60	2.34	2.20	16
1890	.60	.55	.50	29
1891	6.00	5.40	5.10	16
1892	5.44	4.90	4.59	16
1893	10.25	9.23	8.61	16
1894	1.74	1.57	1.40	16
1895	2.92	2.63	2.46	16
1896	2.52	2.27	2.12	16
1897	5.05	4.55	4.29	16
1898	.29	.27	.25	29
1899	2.25	2.02	1.91	16
1900	.29	.27	.25	29
1902	4.18	3.77	3.52	16
1903	3.62	3.26	3.06	16
1904	7.20	6.55	6.12	16
1905	.60	.54	.51	16
1905EP	.90	.81	.76	16
1906	.90	.81	.76	16
1906EP	1.50	1.35	1.27	16
1907	.68	.61	.55	16
1907EP	.99	.91	.80	16
1908	.86	.76	.72	16
1908EP	1.30	1.15	1.08	16
1909	.44	.41	.34	16
1910	1.16	1.04	.97	16
1911	.84	.76	.68	16
1912	1.35	1.21	1.14	16
1913	2.67	2.40	2.25	16
1914	1.50	1.35	1.27	16
1915	1.95	\$ 1.75	1.64	16
1916	3.95	3.55	3.30	16
1917	4.10	3.70	3.45	16
1918	5.62	5.05	4.70	16
1919	.72	.65	.59	16
1920	.88	.80	.72	16
1921	1.25	1.12	1.06	16
1922	1.50	1.35	1.27	16
1923	1.05	.95	.89	16
1924	1.26	1.13	1.06	16
1925	1.85	1.66	1.57	16
1926	2.25	2.02	1.91	16
1927	3.73	3.36	3.14	16
1928	4.25	3.83	3.61	16
1929	2.00	1.80	1.70	16
1930	2.45	2.21	2.08	16
1931	2.50	2.25	2.10	16
1932	2.60	2.34	2.18	16
1933	5.05	4.55	4.29	16
1934	6.10	5.59	5.18	16
1935	4.50	4.05	3.82	16
1936	5.03	4.77	4.50	16
1937	9.30	8.40	7.84	16
1938	10.25	9.23	8.61	16
1939	2.76	2.49	2.33	17
1939EP	4.30	3.87	3.65	17
1941	1.35	1.21	1.14	17
1941EP	1.92	1.73	1.61	17
1942	1.98	1.78	1.65	17
1942EP	3.80	3.42	3.23	17
1943	1.65	1.49	1.40	17
1943EP	2.75	2.48	2.33	17
1944	2.98	2.65	2.50	18
1945	1.85	1.65	1.55	18
1946	1.50	1.35	1.25	18

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†1M-9M only.

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
1947	3.50	3.15	2.95	18
1948	2.30	2.10	1.95	18
1949	1.40	1.25	1.15	18
1950	1.15	1.05	.95	18
1951	2.55	2.30	2.15	18
1952	2.40	2.15	2.00	18
1953	1.35	1.25	1.15	18
1954	1.05	.95	.90	18
1955	2.75	2.45	2.30	18
1956	2.85	2.60	2.40	18
1957	1.69	1.52	1.42	18
1958	1.49	1.39	1.25	18
1959	3.20	2.90	2.70	18
1960	6.00	5.45	5.10	18
1961	2.90	2.60	2.40	18
1962	2.10	1.90	1.75	18
1963	5.25	4.70	4.40	18
1964	2.92	2.63	2.45	18
1965	2.07	1.86	1.74	18
1966	5.85	5.25	4.90	18
1970	.20	.18	.17	26
1971	.18	.17	.16	26
1972	.27	.24	.23	26
1973	.45	.42	.40	26
1974	.60	.55	.50	26
1975	1.95	1.85	1.75	26
1976	1.45	1.40	1.35	26
1978	.35	.34	.31	26
1979	.27	.24	.23	26
1980	.52	.47	.43	26
1981	.95	.85	.80	26
1982	1.25	1.20	1.10	26
1983	4.00	3.90	3.75	26
1984	2.95	2.85	2.75	26
1985	.24	.23	.22	26
1986	.24	.23	.22	26
1987	.30	.29	.25	26
1988	.55	.54	.44	26
1989	.70	.63	.59	26
1990	2.52	2.27	2.12	26
1991	1.90	1.71	1.60	26
1992	.30	.29	.25	26
1993	.27	.24	.23	26
1994	.40	.36	.34	26
1995	.77	.69	.65	26
1996	.98	.88	.82	26
1997	3.63	3.27	3.05	26
1998	2.70	2.43	2.27	26
1999	.45	.40	.38	26
2006	.15	.12	.09	26
2007	.40	.36	.34	26
2008	.69	.62	.58	26
2009	1.34	1.21	1.13	26
2010	1.71	1.54	1.44	26
2011	6.65	5.98	5.59	26
2012	4.65	4.18	3.91	26
2013	.54	.49	.45	26
2014	.45	.42	.40	26
2015	.77	.69	.65	26
2016	1.52	1.37	1.28	26
2017	1.95	1.75	1.31	26
2018	7.75	6.96	6.51	26
2019	5.40	4.86	4.54	26
2020	.18	.16	.15	26
2021	.20	.19	.18	26
2022	.26	.24	.22	26
2023	.28	.25	.24	26
2024	.30	.28	.26	26
2025	.27	.24	.23	26
2026	.45	.42	.40	26

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
2027	.57	.52	.48	26
2028	.62	.57	.53	26
2029	.70	.65	.61	26
2030	.90	.80	.75	26
2031	.52	.47	.43	26
2032	.98	.88	.83	26
2033	1.18	1.13	1.03	26
2034	1.30	1.25	1.15	26
2035	1.50	1.45	1.40	26
2036	2.07	1.86	1.74	26
2037	.38	.36	.34	26
2038	.54	.52	.50	26
2039	.69	.66	.63	26
2042	.33	.30	.27	26
2043	.42	.38	.33	26
2044	.50	.45	.39	26
2045	.55	.49	.42	26
2046	.58	.51	.44	26
2047	.84	.72	.63	26
2048	1.00	.95	.85	26
2051PK	1.35	...	...	N. L.
2052PK	.85	...	...	N. L.
2053PK	.85	...	...	N. L.
2054PK	.75	...	...	N. L.
2055PK	.50	...	...	N. L.
2056PK	.50	...	...	N. L.
2079PK	.43	...	...	N. L.
2080PK	.43	...	...	N. L.
2081PK	1.00	...	...	N. L.
2082PK	.75	...	...	N. L.
2083PK	.66	...	...	N. L.
2084PK	.66	...	...	N. L.
2085PK	1.65	...	...	N. L.
2086PK	1.16	...	...	N. L.
2101	.39	.37	.34	6
2103	.39	.37	.34	6
2104	.39	.37	.34	6
2109	.39	.37	.34	6
2110	.39	.37	.34	6
2113	.39	.37	.34	6
2114	.39	.37	.34	6
2116	.39	.37	.34	6
2119	.39	.37	.34	6
2120	.50	.45	.40	6
2121	.50	.45	.40	6
2125	.39	.37	.34	6
2132	.39	.37	.34	6
2133	.50	.45	.40	6
2134	.39	.37	.34	6
2135	.44	.41	.37	6
2139	.33	.29	.26	2
2140	.50	.47	.40	2
2142	.33	.29	.26	6
2144	.33	.29	.26	6
2145	.39	.37	.34	6
2162	.72	.68	.61	2
2171	.77	.72	.61	2
2173	.39	.36	.32	2
2174	.66	.65	.59	2
2175	.39	.36	.32	2
2176	.66	.65	.58	2
2179	.39	.37	.34	2
2182	.88	.83	.72	2
2185	.55	.54	.48	2
2186	.55	.54	.48	2
2187	.88	.83	.77	2
2188	1.16	1.05	.94	2
2189	.44	.42	.37	2
2190	.94	.88	.83	2
2191	.50	.44	.42	2

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2192	1.16	1.05	.94	...	2
2194	.61	.56	.52	...	2
2195	.61	.56	.52	...	2
2198	.66	.63	.58	...	2
2199	.66	.62	.56	...	2
2304	.14	.12	.11	...	26
2305	.20	.17	.15	...	26
2306	.24	.21	.19	...	26
2307	.24	.21	.19	...	26
2308	.22	.19	.17	...	26
2309	.30	.27	.23	...	26
2310	.52	.47	.40	...	26
2311	.67	.57	.50	...	26
2312	2.42	2.05	1.82	...	26
2313	1.75	1.49	1.31	...	26
2314	.30	.27	.23	...	26
2315	.54	.48	.41	...	26
2316	.62	.53	.47	...	26
2317	.70	.60	.53	...	26
2318	.84	.72	.63	...	26
2319	.95	.81	.71	...	26
2375	.85	.73	...	...	N. L.
2377	.85	.73	...	...	N. L.
3014	.20	.15	13.20C	...	29
3015	.20	.17	15.00C	...	29
3016	.20	.17	15.00C	...	29
3018	.20	.17	15.00C	...	29
3019	.15	.12	10.20C	...	29
3020	.15	.12	9.60C	...	29
3021	.15	.12	10.20C	...	29
3022	.15	.12	9.00C	...	29
3302	.40	.38	...	...	31
3303	.42	.40	...	...	31
3304	.50	.45	...	...	31
3305	.47	.42	...	...	31
3306	.48	.46	...	...	31
3307	.72	.70	...	...	31
3308	.50	.45	...	...	31
3309	.62	.57	...	...	31
3310	.79	.75	...	...	31
3311	.60	.55	...	...	31
3312	.85	.80	...	...	31
3313	1.10	1.05	...	...	31
3314	.65	.60	...	...	31
3315	.90	.85	...	...	31
3316	1.05	1.00	...	...	31
3317	.70	.65	...	...	31
3318	.95	.90	...	...	31
3319	1.20	1.15	...	...	31
3320	.92	.87	...	...	31
3321	.45	.40	...	...	31
3322	.60	.55	...	...	31
3323	.48	.43	...	...	31
3325	.35	.30	.27	...	31
3326	.50	.45	.37	...	31
3327	.60	.55	...	...	31
3328	2.50	2.25	...	...	N. L.
3329	2.10	2.00	...	...	N. L.
3330	.45	.42	...	...	31
3331	.45	.42	...	...	31
3332	.83	.78	...	...	31
3334	.45	.42	...	...	31
3335	.45	.42	...	...	31
3336	.45	.42	...	...	31
3337	.60	.55	...	...	31
3338	.60	.55	...	...	31
3343	.35	.30	...	...	N. L.
4000	...	...	2.00/C	12.00	9
4001	...	...	2.25/C	12.50	9
4002	...	...	2.50/C	13.50	9

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

ALL CATALOG ITEMS ARE AVAILABLE FOR IMMEDIATE DELIVERY FROM STOCK.

Cat. #	1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
4003	...	...	2.75/C	15.00	9
4004	...	...	1.00/C	5.40	9
4005	...	...	1.50/C	9.00	9
4006	...	...	1.50/C	8.00	9
4007	...	...	1.50/C	8.50	9
4008	...	...	1.75/C	10.00	9
4009	...	...	1.75/C	10.50	9
4010	...	...	1.75/C	11.00	9
4011	...	...	1.75/C	11.25	9
4012	...	...	1.75/C	11.50	9
4013	...	...	1.75/C	11.80	9
4014	...	...	1.90/C	12.00	9
4015	...	...	1.90/C	12.20	9
4016	...	...	1.90/C	13.00	9
4017	...	...	2.25/C	15.00	9
4018	...	...	2.25/C	15.50	9
4019	...	...	2.25/C	16.00	9
4020	...	...	2.40/C	17.00	9
4021	...	...	.95	6.00	8
4022	...	...	1.25	7.00	8
4023	.06	.05	.04	...	9
4024	.07	.06	.05	...	9
4025	.08	.07	.06	...	9
4026	.07	.06	.05	...	9
4027	.08	.07	.06	...	9
4028	.09	.08	.07	...	9
4029	.08	.07	.06	...	9
4030	.09	.08	.07	...	9
4031	.10	.09	.08	...	9
4041	.13	.12	.11	...	14
4042	.21	.20	.19	...	14
4043	.27	.25	.21	...	14
4044	.36	.32	.30	...	14
4045	.43	.39	.34	...	14
4046	.24	.22	.21	...	14
4047	.42	.36	.33	...	14
4048	.49	.45	.42	...	14
4049	.57	.54	.51	...	14
4050	.65	.62	.60	...	14
4051	.25	.23	.22	...	14
4052	.42	.36	.33	...	14
4053	.49	.45	.42	...	14
4054	.58	.55	.52	...	14
4055	.66	.63	.61	...	14
4056	.13	.12	.11	...	14
4057	.21	.20	.19	...	14
4058	.25	.23	.22	...	14
4059	.35	.31	.29	...	14
4060	.42	.36	.33	...	14
4061	.27	.25	.24	...	14
4062	.43	.39	.31	...	14
4063	.50	.46	.43	...	14
4064	.61	.58	.54	...	14
4065	.68	.65	.63	...	14
4066	.27	.25	.24	...	14
4067	.43	.39	.34	...	14
4068	.51	.47	.44	...	14
4069	.62	.59	.55	...	14
4070	.75	.68	.65	...	14
4071	.13	.12	.11	...	14
4072	.21	.20	.19	...	14
4073	.27	.25	.24	...	14
4074	.35	.31	.29	...	14
4075	.43	.39	.34	...	14
4076	.25	.23	.22	...	14
4077	.43	.39	.34	...	14
4078	.50	.46	.43	...	14
4079	.61	.58	.54	...	14
4080	.68	.65	.63	...	14
4081	.27	.25	.24	...	14

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
4082	.43	.39	.34	14
4083	.51	.47	.44	14
4084	.62	.59	.55	14
4085	.75	.68	.65	14
4101	.18	.17	.16	14
4102	.28	.26	.25	14
4103	.37	.33	.31	14
4104	.48	.44	.41	14
4105	.55	.53	.47	14
4106	.34	.30	.28	14
4107	.53	.50	.45	14
4108	.67	.64	.62	14
4109	.85	.76	.73	14
4110	1.06	.99	.85	14
4111	.36	.32	.30	14
4112	.54	.52	.46	14
4113	.68	.65	.63	14
4114	.90	.82	.75	14
4115	1.08	1.01	.88	14
4116	.18	.17	.16	14
4117	.33	.29	.27	14
4118	.44	.40	.35	14
4119	.50	.46	.43	14
4120	.60	.57	.53	14
4121	.35	.31	.29	14
4122	.55	.53	.47	14
4123	.75	.68	.65	14
4124	.94	.86	.79	14
4125	1.17	1.07	.92	14
4126	.37	.33	.31	14
4127	.57	.54	.51	14
4128	.76	.69	.66	14
4129	.95	.87	.80	14
4130	1.18	1.08	.93	14
4131	.18	.17	.16	14
4132	.33	.29	.27	14
4133	.44	.40	.35	14
4134	.50	.46	.43	14
4135	.60	.57	.53	14
4136	.35	.31	.29	14
4137	.55	.53	.47	14
4138	.75	.68	.65	14
4139	.94	.86	.79	14
4140	1.17	1.07	.92	14
4141	.37	.33	.31	14
4142	.57	.54	.51	14
4143	.76	.69	.66	14
4144	.95	.87	.80	14
4145	1.18	1.08	.93	14
4147	.27	.25	.24	15
4148	.35	.31	.29	15
4149	.46	.42	.37	15
4150	.54	.52	.46	15
4151	.62	.59	.55	15
4152	.69	.66	.64	15
4153	.81	.74	.71	15
4154	.92	.84	.77	15
4155	.99	.91	.84	15
4156	1.15	1.05	.90	15
4157	.19	.18	.17	15
4158	.27	.25	.24	15
4159	.42	.36	.33	15
4160	.44	.40	.35	15
4161	.55	.53	.47	15
4162	.63	.60	.56	15
4163	.69	.66	.64	15
4164	.79	.72	.69	15
4165	.90	.82	.75	15
4166	.96	.88	.81	15
4167	.16	.15	.14	15

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4168	.23	.21	.20	15
4169	.28	.26	.25	15
4170	.36	.32	.30	15
4171	.43	.39	.34	15
4172	.47	.43	.40	15
4173	.51	.47	.44	15
4174	.57	.54	.51	15
4175	.62	.59	.55	15
4176	.66	.63	.61	15
4177	.18	.17	.16	15
4178	.24	.22	.21	15
4179	.33	.29	.27	15
4180	.37	.33	.31	15
4181	.46	.42	.37	15
4182	.49	.45	.42	15
4183	.55	.53	.47	15
4184	.61	.58	.54	15
4185	.65	.62	.60	15
4186	.75	.68	.65	15
4225	.65	.62	.60	20
4226	1.09	.98	.92	20
4227	1.55	1.40	1.30	20
4228	4.80	4.30	4.02	20
4229	.85	.75	.70	20
4230	.90	.80	.75	20
4231	1.15	1.05	.98	20
4232	6.40	5.75	5.25	20
4234	1.25	1.15	1.05	20
4235	1.75	1.55	1.40	20
4236	3.15	2.80	2.60	20
4237	6.60	5.95	5.40	20
4238	1.35	1.25	1.15	20
4239	1.85	1.65	1.50	20
4240	3.20	3.00	2.80	20
4241	6.70	6.05	5.45	20
4242	.80	.70	.65	20
4243	.90	.81	.76	20
4244	1.38	1.22	1.16	20
4245	4.39	3.95	3.60	20
4246	.85	.75	.70	20
4247	.90	.80	.75	20
4248	1.15	1.05	.98	20
4249	4.90	4.40	4.10	20
4250	1.25	1.15	1.05	20
4251	1.75	1.55	1.40	20
4252	3.15	2.80	2.60	20
4253	6.50	5.75	5.10	20
4254	1.35	1.25	1.15	20
4255	1.85	1.65	1.50	20
4256	3.35	3.00	2.80	20
4257	6.70	6.05	5.45	20
4258	.80	.70	.65	20
4259	.90	.81	.76	20
4260	1.38	1.22	1.16	20
4261	4.39	3.95	3.60	20
4262	.85	.75	.70	20
4263	.90	.80	.75	20
4264	1.15	1.05	.98	20
4265	4.90	4.40	4.10	20
4266	1.42	1.28	1.17	20
4267	1.92	1.73	1.56	20
4268	3.60	3.24	2.91	20
4269	6.50	5.75	5.10	20
4270	1.35	1.25	1.15	20
4271	1.85	1.65	1.50	20
4272	3.32	3.00	2.80	20
4273	6.70	6.05	5.45	20
4283	.46	.41	.36	20
4284	1.00	.85	.75	20
4285	2.09	1.77	1.56	20

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4286	3.70	3.15	2.75	20
4287	3.59	3.05	2.69	20
4288	6.00	5.10	4.50	20
4289	.45	.39	.34	22
4290	.45	.39	.34	22
4291	.46	.41	.36	22
4292	.48	.43	.38	22
4293	.30	.27	.23	22
4294	.31	.28	.24	22
4295	.33	.30	.27	22
4296	.35	.31	.28	22
4297	.29	.26	.22	22
4298	.29	.26	.22	22
4299	.42	.38	.33	22
4300	.50	.45	.39	22
4301	.50	.45	.39	22
4303	.56	.50	.43	22
4304	.72	.62	.55	22
4305	.27	.24	.22	22
4307	.40	.34	.32	22
4308	.46	.40	.37	22
4309	.46	.40	.37	22
4311	.53	.48	.42	22
4312	.61	.54	.47	22
4313	.42	.38	.33	22
4314	.43	.37	.34	22
4315	.45	.39	.35	22
4316	.46	.41	.36	22
4317	.48	.43	.38	22
4318	.50	.45	.39	22
4319	.58	.51	.44	22
4320	.64	.54	.48	22
4321	1.45	1.40	1.35	22
4322	1.50	1.45	1.40	22
4323	.36	.33	.30	24
4324	.47	.42	.38	24
4325	.64	.57	.51	24
4326	.11	.10	.09	24
4327	.14	.12	.11	24
4328	.16	.14	.13	24
4329	1.55	1.50	1.45	22
4330	.85	.80	.75	22
4331	.85	.80	.75	22
4332	.25	.23	.20	24
4333	.33	.30	.27	24
4334	.48	.43	.38	24
4335	.14	.12	.11	22
4350	.73	.66	.51	25
4351	.77	.69	.54	25
4352	1.05	.95	.74	25
4353	1.05	.95	.74	25
4354	1.05	.95	.74	25
4355	1.15	.98	.87	25
4356	1.15	.98	.87	25
4357	1.15	.98	.87	25
4358	.87	.75	.66	25
4359	.87	.75	.66	25
4360	.87	.75	.66	25
4361	.36	.33	.30	25
4362	.36	.33	.30	25
4363	.40	.34	.30	25
4364	.40	.34	.30	25
4365	.40	.34	.30	25
4366	.55	.49	.42	25
4367	.55	.49	.42	25
4368	.55	.49	.42	25
4369	.58	.51	.44	25
4370	.58	.51	.44	25
4371	.58	.51	.44	25
4372	.94	.85	.77	25

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Cat. #	1-19 Each	20-90 Each	100-240 Each	1M-4M Per M	Page #
4373	.94	.85	.77	...	25
4374	.94	.85	.77	...	25
4375	1.35	1.13	1.01	...	25
4376	1.55	1.32	1.16	...	25
4377	.67	.57	.50	...	25
4378	.67	.57	.50	...	25
4379	.67	.57	.50	...	25
4380	1.15	.98	.87	...	25
4381	1.30	1.10	.98	...	25
4401	.08	.07	.06	...	14
4402	.08	.07	.06	...	14
4403	.08	.07	.06	...	14
4404	.08	.07	.06	...	14
4405	.08	.07	.06	...	14
4406	.08	.07	.06	...	14
4407	.08	.07	.06	...	14
4408	.08	.07	.06	...	14
4409	.09	.08	.07	...	14
4410	.09	.08	.07	...	14
4411	.08	.07	.06	...	14
4412	.08	.07	.06	...	14
4413	.08	.07	.06	...	14
4414	.09	.08	.07	...	14
4415	.09	.08	.07	...	14
4416	.55	.49	.42	...	24
4417	.62	.53	.47	...	24
4418	.97	.83	.73	...	24
4419	1.57	1.34	1.18	...	24
4420	1.64	1.39	1.23	...	24
4421	.42	.38	.33	...	24
4422	.45	.39	.34	...	24
4423	.55	.49	.42	...	24
4424	.58	.51	.44	...	24
4425	.70	.60	.53	...	24
4426	.74	.63	.56	...	24
4427	.97	.83	.73	...	24
4428	1.09	.93	.82	...	24
4450	.15	.14	.13	...	25
4451	.15	.14	.13	...	25
4452	.16	.15	.14	...	25
4453	.18	.17	.16	...	25
4454	.18	.17	.16	...	25
4455	.18	.17	.16	...	25
4456	.18	.17	.16	...	25
4457	.18	.17	.16	...	25
4458	.39	.33	.30	...	25
4459	.42	.36	.33	...	25
4460	.45	.39	.35	...	25
4461	.50	.45	.40	...	25
4462	.60	.55	.50	...	25
4463	.42	.38	.33	...	25
4464	.75	.64	.57	...	25
4465	.46	.41	.36	...	25
4466	.50	.45	.39	...	25
4467	.54	.48	.41	...	25
4468	.58	.51	.44	...	25
4469	...	...	2.25C	16.00	14
4470	...	...	2.50C	17.50	14
4471	...	...	2.50C	17.50	14
4472	...	...	2.50C	17.50	14
4473	...	...	2.50C	17.50	14
4474	...	...	2.50C	17.50	14
4482	.33	.30	.27	...	24
4483	.33	.30	.27	...	24
4484	.33	.30	.27	...	24
4485	.33	.30	.27	...	24
4486	.24	.21	.19	...	24
4500	.25	.23	.20	...	15
4501	.42	.38	.33	...	15

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4502	.62	.53	.47	15
4503	.79	.67	.59	15
4504	.97	.83	.73	15
4505	.40	.34	.30	15
4506	.77	.66	.58	15
4507	1.15	.98	.87	15
4508	1.52	1.30	1.14	15
4509	2.25	2.10	2.00	...
4510	.42	.38	.33	15
4511	.80	.68	.60	15
4512	1.20	1.02	.90	15
4513	1.57	1.34	1.18	15
4514	2.25	2.10	2.00	15
4515	.16	.14	.13	22
4516	.20	.17	.15	22
12501	.77	.66	.58	N. L.
12502	1.52	1.30	1.14	N. L.
12503	1.64	1.39	1.23	N. L.
12504	1.75	1.49	1.31	N. L.
12505	1.87	1.59	1.41	N. L.
15021	1.31	1.11	.99	10
15022	2.36	2.21	2.05	10
15023	1.31	1.11	.99	10
15024	2.15	1.94	1.79	10
15025	1.31	1.11	.99	10
15026	2.21	2.00	1.84	10
15028	2.36	2.21	2.05	10
15029	2.15	1.94	1.79	10
15030	2.21	2.00	1.84	10
15031	1.03	.90	.79	10
15032	2.05	1.94	1.84	10
15033	2.15	2.05	1.89	10
15034	2.31	2.08	1.94	10
15035	2.36	2.21	2.05	10
15036	2.05	1.94	1.84	10
15041	2.10	1.94	1.84	10
15042	3.99	3.78	3.68	10
15043	4.20	3.99	3.89	10
15044	4.36	4.15	3.99	10
15045	4.52	4.31	4.15	10
15046	4.10	3.78	3.68	10
15047	1.58	1.31	1.21	10
15048	2.10	2.00	1.79	10
15049	2.10	2.00	1.79	10
15053	1.31	1.11	.99	10
15054	2.36	2.21	2.05	10
15056	2.36	2.21	2.05	10
15057	1.58	1.31	1.21	10
15058	2.10	2.00	1.79	10
15059	2.10	2.00	1.79	10
15063	1.52	1.42	1.37	10
15064	2.78	2.63	2.52	10
15065	2.89	2.73	2.63	10
15067	1.58	1.31	1.21	10
15068	2.10	2.00	1.79	10
15069	2.10	2.00	1.79	10
15071	1.31	1.16	1.05	10
15072	2.15	2.00	1.89	10
15073	2.26	2.10	2.00	10
15074	2.36	2.21	2.10	10
15075	2.52	2.36	2.26	10
15076	2.15	2.00	1.89	10
15077	1.84	1.58	1.47	10
15078	2.21	2.00	1.89	10
15079	2.10	2.00	1.79	10
15087	1.94	1.73	1.58	10
15088	2.21	2.00	1.89	10
15089	2.21	2.00	1.89	10
15091	1.26	1.16	1.00	10
15092	2.10	2.00	1.89	10

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

ALL CATALOG ITEMS ARE AVAILABLE FOR IMMEDIATE DELIVERY FROM STOCK.

Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
15093	2.21	2.10	2.00	10
15094	2.42	2.31	2.21	10
15095	2.52	2.42	2.31	10
15096	2.10	2.00	1.89	10
15097	1.58	1.31	1.21	10
15098	2.10	2.00	1.79	10
15099	2.10	2.00	1.79	10
15101	.37	.32	.28	11
15102	.68	.60	.57	11
15103	.95	.85	.80	11
15104	1.21	1.12	1.07	11
15105	1.47	1.37	1.31	11
15106	.53	.47	.44	11
15107	1.16	1.07	1.02	11
15108	1.58	1.52	1.47	11
15109	1.84	1.73	1.68	11
15110	2.63	2.52	2.47	11
15111	.58	.50	.47	11
15112	1.21	1.13	1.08	11
15113	1.63	1.52	1.42	11
15114	1.94	1.83	1.76	11
15115	2.57	2.42	2.31	11
15116	.68	.60	.51	11
15117	1.31	1.21	1.10	11
15118	1.73	1.63	1.52	11
15119	1.94	1.87	1.79	11
15120	2.73	2.57	2.47	11
15121	.68	.61	.58	11
15122	1.31	1.16	1.05	11
15123	1.79	1.68	1.63	11
15124	2.10	2.00	1.94	11
15125	2.78	2.63	2.52	11
15126	.74	.63	.60	11
15127	1.37	1.26	1.21	11
15128	1.84	1.77	1.68	11
15129	2.36	2.21	2.10	11
15130	2.99	2.89	2.73	11
15221	1.37	1.21	1.10	10
15222	2.52	2.42	2.31	10
15223	1.37	1.21	1.10	10
15224	2.36	2.21	2.10	10
15225	1.37	1.21	1.10	10
15226	2.36	2.21	2.15	10
15228	2.42	2.26	2.21	10
15229	2.36	2.21	2.10	10
15230	2.36	2.21	2.15	10
15231	1.68	1.52	1.42	10
15232	2.78	2.63	2.52	10
15233	3.26	3.05	2.94	10
15234	3.47	3.31	3.15	10
15235	3.73	3.57	3.41	10
15236	2.78	2.63	2.52	10
15241	2.21	2.05	1.94	10
15242	4.46	4.20	3.99	10
15243	4.62	4.36	4.15	10
15244	4.73	4.46	4.31	10
15245	5.25	4.99	4.83	10
15246	4.46	4.20	3.99	10
15247	1.73	1.52	1.37	10
15248	2.42	2.21	2.00	10
15249	2.42	2.21	2.00	10
15253	1.47	1.31	1.21	10
15254	2.47	2.31	2.26	10
15256	2.47	2.31	2.26	10
15257	1.73	1.52	1.37	10

FOR QUANTITY PRICES NOT SHOWN, PROMPT QUOTATIONS RENDERED UPON REQUEST.

Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
15258	2.42	2.21	2.00	10
15259	2.42	2.21	2.00	10
15263	1.68	1.52	1.42	10
15264	2.89	2.73	2.63	10
15265	3.30	3.20	3.10	10
15267	1.73	1.52	1.37	10
15268	2.42	2.21	2.00	10
15269	2.42	2.21	2.00	10
15271	1.84	1.58	1.47	10
15272	3.26	3.05	2.94	10
15273	3.57	3.36	3.26	10
15274	3.89	3.73	3.57	10
15275	4.10	3.78	3.68	10
15276	3.36	3.20	3.05	10
15277	1.94	1.73	1.58	10
15278	2.42	2.21	2.00	10
15279	2.42	2.21	2.00	10
15287	1.94	1.73	1.58	10
15288	2.42	2.21	2.00	10
15289	2.42	2.21	2.00	10
15291	1.68	1.52	1.42	10
15292	2.78	2.63	2.52	10
15293	3.26	3.05	2.94	10
15294	3.52	3.36	3.20	10
15295	3.68	3.47	3.36	10
15296	2.99	2.89	2.73	10
15297	1.70	1.60	1.50	10
15298	2.42	2.21	2.00	10
15299	2.42	2.21	2.00	10
15301	.47	.37	.32	11
15302	.63	.58	.53	11
15303	.89	.84	.79	11
15304	1.37	1.26	1.16	11
15305	1.63	1.52	1.45	11
15306	.63	.58	.53	11
15307	1.42	1.31	1.26	11
15308	1.79	1.68	1.63	11
15309	2.47	2.31	2.21	11
15310	3.20	3.10	2.99	11
15311	.63	.58	.53	11
15312	1.37	1.26	1.16	11
15313	2.21	2.10	2.00	11
15314	2.84	2.68	2.57	11
15315	3.36	3.20	3.05	11
15316	.89	.79	.76	11
15317	1.68	1.52	1.42	11
15318	2.00	1.89	1.84	11
15319	3.05	2.94	2.78	11
15320	3.57	3.41	3.26	11
15321	.95	.85	.80	11
15322	1.68	1.47	1.37	11
15323	2.36	2.21	2.10	11
15324	3.15	3.05	2.94	11
15325	3.83	3.68	3.52	11
15326	1.21	1.00	.89	11
15327	1.63	1.52	1.42	11
15328	2.52	2.36	2.26	11
15329	3.26	3.05	2.94	11
15330	4.10	3.94	3.78	11
15332	3.83	3.68	3.52	13

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Catalog Number	1-19 Each	20-90 Each	100-240 Each	Page #
15333	4.10	3.94	3.78	13
15342	4.62	4.46	4.31	13
15343	4.73	4.57	4.41	13
15401	.38	.34	.32	12
15402	.68	.60	.57	12
15403	.95	.85	.80	12
15404	1.20	1.12	1.07	12
15405	1.52	1.42	1.31	12
15406	.79	.68	.59	12
15407	1.21	1.05	.96	12
15408	1.79	1.63	1.52	12
15409	2.10	2.00	1.94	12
15410	2.73	2.57	2.47	12
15411	.58	.50	.47	12
15412	1.37	1.21	1.10	12
15413	1.79	1.63	1.52	12
15414	2.31	2.15	2.05	12
15415	2.84	2.68	2.57	12
15431	.37	.32	.28	11
15432	.53	.47	.42	11
15433	.95	.85	.80	11
15434	1.31	1.20	1.12	11
15435	1.68	1.52	1.42	11
15436	.47	.42	.37	11
15437	1.05	.95	.84	11
15438	1.68	1.52	1.42	11
15439	1.84	1.73	1.68	11
15440	2.52	2.42	2.31	11
15441	.68	.60	.53	11
15442	1.21	1.13	1.08	11
15443	1.63	1.52	1.47	11
15444	2.10	2.00	1.94	11
15445	2.84	2.68	2.57	11
15501	.47	.42	.37	12
15502	.74	.63	.60	12
15503	1.05	.95	.84	12
15504	1.37	1.26	1.18	12
15505	1.68	1.47	1.37	12
15506	.79	.68	.63	12
15507	1.26	1.19	1.13	12
15508	2.52	2.42	2.31	12
15509	2.73	2.63	2.52	12
15510	2.99	2.89	2.73	12
15511	.68	.63	.58	12
15512	1.26	1.19	1.13	12
15513	1.68	1.58	1.52	12
15514	2.52	2.42	2.31	12
15515	2.99	2.89	2.73	11
15531	.37	.32	.29	11
15532	.68	.60	.53	11
15533	1.00	.95	.89	11
15534	1.31	1.24	1.16	11
15535	1.58	1.52	1.47	11
15536	.63	.58	.53	11
15537	1.16	1.10	1.05	11
15538	1.84	1.68	1.58	11
15539	2.42	2.26	2.10	11
15540	2.78	2.63	2.52	11
15541	.74	.68	.63	11
15542	1.31	1.21	1.10	11
15543	1.84	1.68	1.58	11
15544	2.52	2.42	2.31	11
15545	2.99	2.89	2.73	11

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