

# FCN-244F\*\*\*-G\*, -244M\*\*\*-G/0

## FCN-240 SERIES STACKING CONNECTORS

### FEATURES

- Selectable spacing of parallel PCB connection between 8 to 14mm(0.315 to 0.551in.).
- Available in 10-pos increments between 20 and 120 pos.
- 2 rows of mating contact with 1.27mm(.050in.) of spacing pitch of adjacent contact
- 2.54×1.905mm(.100×.075in.) 4 rows staggered arrangement PCB terminal for ease of board layout.
- Bellows type contact to avoid the bend, provide reliable interconnection
- **High temp. plastic**

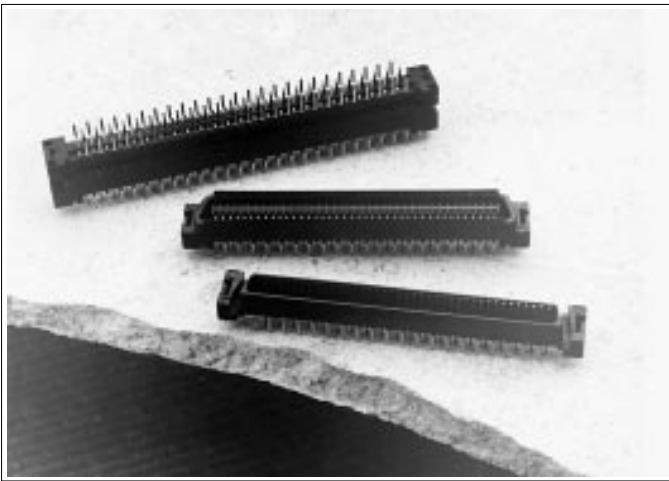
## 2

### SPECIFICATIONS

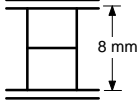
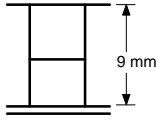
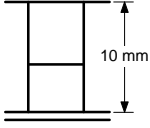
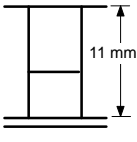
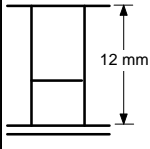
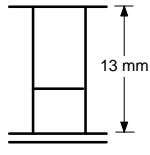
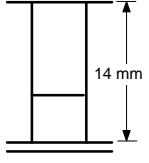
|                             |                         |
|-----------------------------|-------------------------|
| Operating Temperature Range | −55 to +105°C           |
| Maximum allowable current   | 1 A DC                  |
| Maximum allowable voltage   | 250V AC                 |
| Contact Resistance          | 35 mΩ max (D6 DC, 0.1A) |
| Insulation Resistance       | 1000 MΩ min (500V AC)   |
| Dielectric strength         | 750V AC for 1 minute    |

### MATERIALS

|                    |                             |
|--------------------|-----------------------------|
| Insulator          | Polimide Resin (UL94V-0)    |
| Conductor material | Copper alloy                |
| Contact Plating    | Contact section: Gold       |
|                    | Terminal section: Palladium |



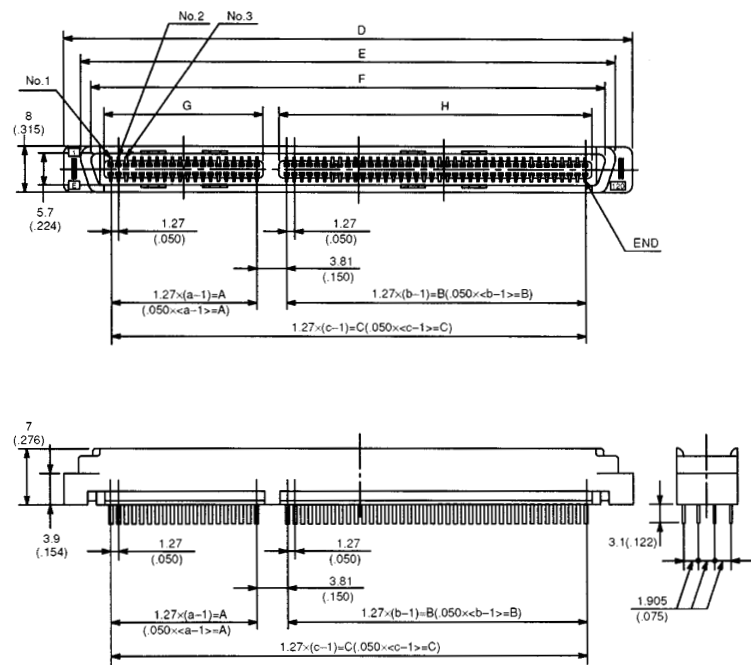
## STACKING SPECIFICATIONS

| PCB spase     |        | 8                                                                                 | 9                                                                                 | 10                                                                                | 11                                                                                | 12                                                                                 | 13                                                                                  | 14                                                                                  |
|---------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Configuration |        |  |  |  |  |  |  |  |
| Part number   | Plug   | FCN-244***-G/0 (Plug is common.)                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|               | Socket | FCN-244F***-G/0<br>FCN-244F***-G/A                                                | FCN-244F***-G/1<br>FCN-244F***-G/B                                                | FCN-244F***-G/2<br>FCN-244F***-G/C                                                | FCN-244F***-G/3<br>FCN-244F***-G/D                                                | FCN-244F***-G/4<br>FCN-244F***-G/E                                                 | FCN-244F***-G/5<br>FCN-244F***-G/F                                                  | FCN-244F***-G/6<br>FCN-244F***-G/G                                                  |

◆ Under development

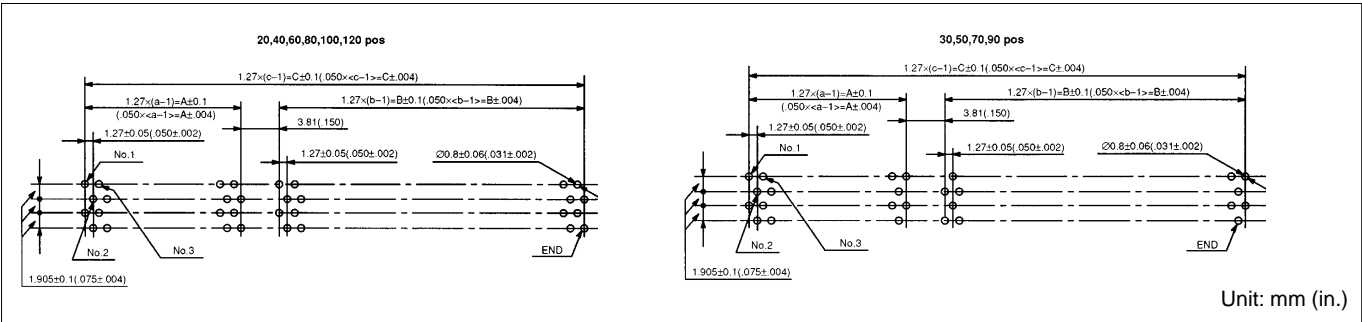
FCN-244M\*\*\*G/0 STRAIGHT PLUG

DIMENSIONS



Unit: mm (in.)

MOUNTING HOLE LAYOUT (mount side)



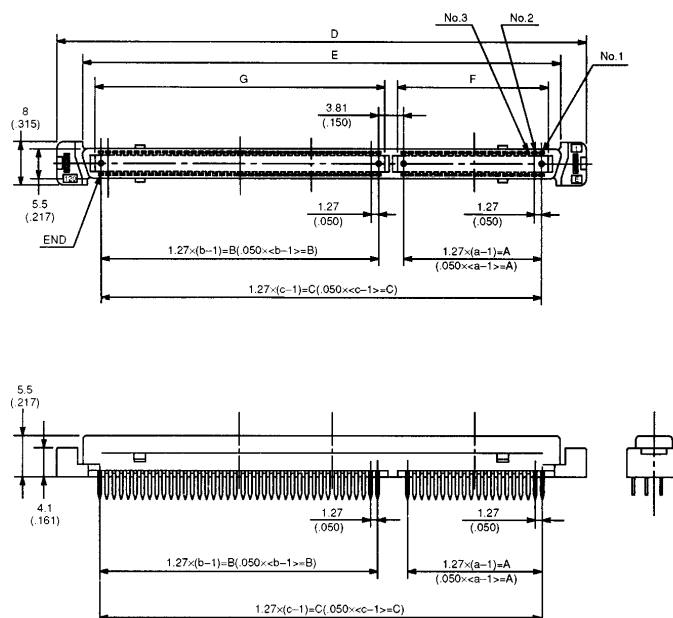
Unit: mm (in.)

PART NUMBERS

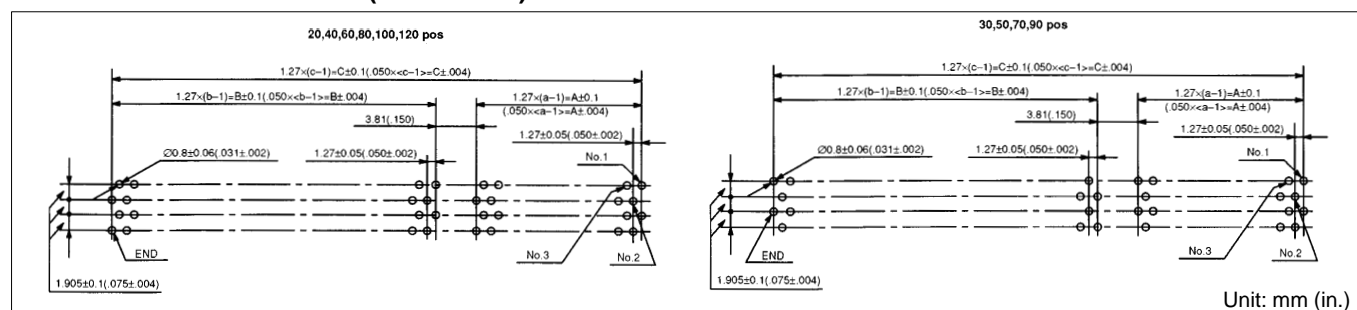
| Pos | Part number     | a  | A     | b  | B     | c  | C     | D     | E     | F     | G     | H     | J     |
|-----|-----------------|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|-------|
| 20  | FCN-244M020-G/0 | —  | —     | —  | —     | 10 | 11.43 | 24.05 | 19.27 | 17.27 | 13.23 | —     | 21.40 |
| 30  | FCN-244M030-G/0 | —  | —     | —  | —     | 15 | 17.78 | 30.40 | 25.62 | 23.62 | 19.58 | —     | 27.75 |
| 40  | FCN-244M040-G/0 | —  | —     | —  | —     | 20 | 24.13 | 36.75 | 31.97 | 29.97 | 25.93 | —     | 34.10 |
| 50  | FCN-244M050-G/0 | —  | —     | —  | —     | 25 | 30.48 | 43.10 | 38.32 | 36.32 | 32.28 | —     | 40.45 |
| 60  | FCN-244M060-G/0 | —  | —     | —  | —     | 30 | 36.83 | 49.45 | 44.67 | 42.67 | 38.63 | —     | 46.86 |
| 70  | FCN-244M070-G/0 | —  | —     | —  | —     | 35 | 43.18 | 55.80 | 51.02 | 49.02 | 44.98 | —     | 53.15 |
| 80  | FCN-244M080-G/0 | —  | —     | —  | —     | 40 | 49.53 | 62.15 | 57.37 | 55.37 | 51.33 | —     | 59.50 |
| 90  | FCN-244M090-G/0 | —  | —     | —  | —     | 45 | 55.88 | 68.50 | 63.92 | 61.62 | 57.68 | —     | 65.85 |
| 100 | FCN-244M100-G/0 | —  | —     | —  | —     | 50 | 62.23 | 74.85 | 70.07 | 68.07 | 64.03 | —     | 72.20 |
| 120 | FCN-244M120-G/0 | 20 | 24.13 | 40 | 49.53 | —  | 77.47 | 90.09 | 85.31 | 83.31 | 25.93 | 51.33 | 87.44 |

# FCN-244F\*\*\*-G/0 STRAIGHT SOCKET (for 8mm<.315in.> space)

## DIMENSIONS



## MOUNTING HOLE LAYOUT (mount side)

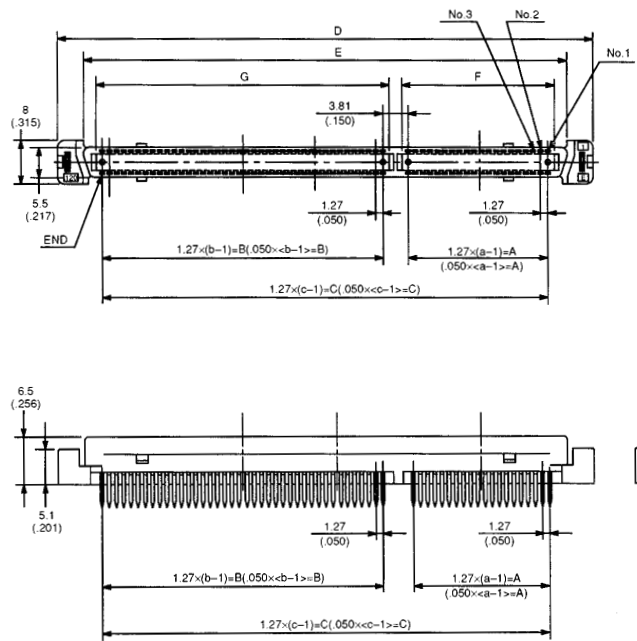


## PART NUMBERS

| Pos | Part number     | a  | A     | b  | B     | c  | C     | D     | E     | F     | G     | H     |
|-----|-----------------|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|
| 20  | FCN-244F020-G/0 | —  | —     | —  | —     | 10 | 11.43 | 24.05 | 16.77 | 13.43 | —     | 21.40 |
| 30  | FCN-244F030-G/0 | —  | —     | —  | —     | 15 | 17.78 | 30.40 | 23.12 | 19.78 | —     | 27.75 |
| 40  | FCN-244F040-G/0 | —  | —     | —  | —     | 20 | 24.13 | 36.75 | 29.47 | 26.13 | —     | 34.10 |
| 50  | FCN-244F050-G/0 | —  | —     | —  | —     | 25 | 30.48 | 43.10 | 35.82 | 32.48 | —     | 40.45 |
| 60  | FCN-244F060-G/0 | —  | —     | —  | —     | 30 | 36.83 | 49.45 | 42.17 | 38.83 | —     | 46.80 |
| 70  | FCN-244F070-G/0 | —  | —     | —  | —     | 35 | 43.18 | 55.80 | 48.52 | 45.18 | —     | 53.15 |
| 80  | FCN-244F080-G/0 | —  | —     | —  | —     | 40 | 49.53 | 62.15 | 54.87 | 51.53 | —     | 59.50 |
| 90  | FCN-244F090-G/0 | —  | —     | —  | —     | 45 | 55.88 | 68.50 | 61.22 | 57.88 | —     | 65.85 |
| 100 | FCN-244F100-G/0 | —  | —     | —  | —     | 50 | 62.23 | 74.85 | 67.57 | 64.23 | —     | 72.20 |
| 120 | FCN-244F120-G/0 | 20 | 24.13 | 40 | 49.53 | —  | 77.47 | 90.09 | 82.81 | 25.93 | 51.53 | 87.44 |

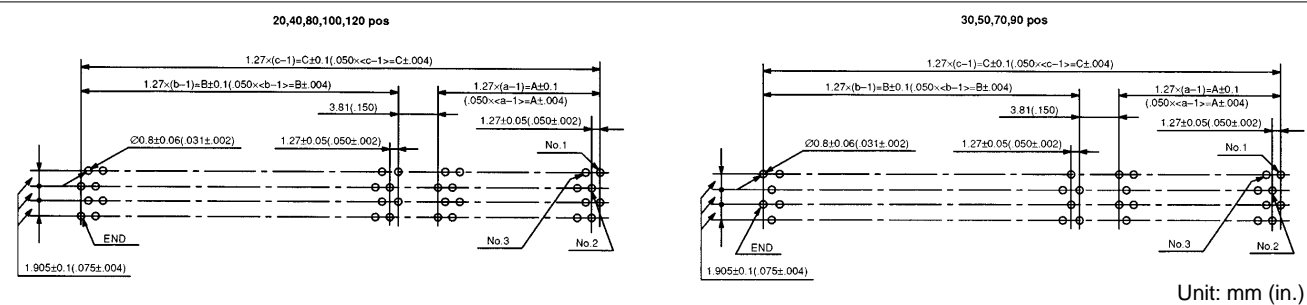
FCN-244F\*\*\*-G/1 STRAIGHT SOCKET (for 9mm<.354in.> space)

DIMENSIONS



Unit: mm (in.)

MOUNTING HOLE LAYOUT (mount side)



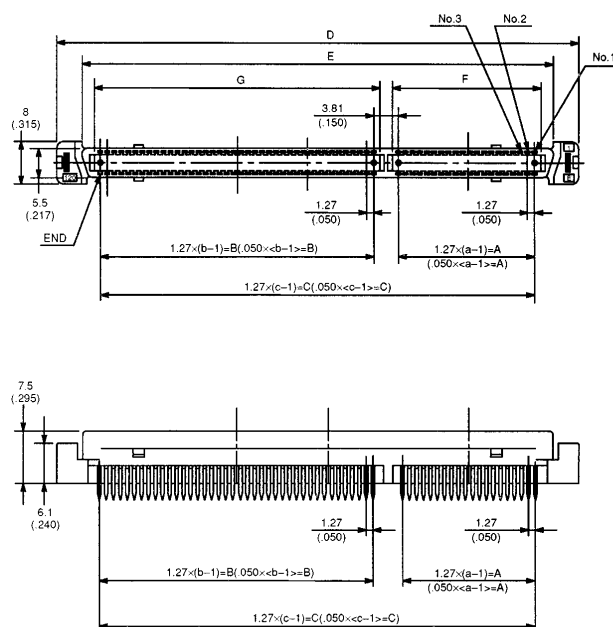
Unit: mm (in.)

PART NUMBERS

| Pos | Part number     | a  | A     | b  | B     | c  | C     | D     | E     | F     | G     | H     |
|-----|-----------------|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|
| 20  | FCN-244F020-G/1 | —  | —     | —  | —     | 10 | 11.43 | 24.05 | 16.77 | 13.43 | —     | 21.40 |
| 30  | FCN-244F030-G/1 | —  | —     | —  | —     | 15 | 17.78 | 30.40 | 23.12 | 19.78 | —     | 27.75 |
| 40  | FCN-244F040-G/1 | —  | —     | —  | —     | 20 | 24.13 | 36.75 | 29.47 | 26.13 | —     | 34.10 |
| 50  | FCN-244F050-G/1 | —  | —     | —  | —     | 25 | 30.48 | 43.10 | 35.82 | 32.48 | —     | 40.45 |
| 60  | FCN-244F060-G/1 | —  | —     | —  | —     | 30 | 36.83 | 49.45 | 42.17 | 38.83 | —     | 46.80 |
| 70  | FCN-244F070-G/1 | —  | —     | —  | —     | 35 | 43.18 | 55.80 | 48.52 | 45.18 | —     | 53.15 |
| 80  | FCN-244F080-G/1 | —  | —     | —  | —     | 40 | 49.53 | 62.15 | 54.87 | 51.53 | —     | 59.50 |
| 90  | FCN-244F090-G/1 | —  | —     | —  | —     | 45 | 55.88 | 68.50 | 61.22 | 57.88 | —     | 65.85 |
| 100 | FCN-244F100-G/1 | —  | —     | —  | —     | 50 | 62.23 | 74.85 | 67.57 | 64.23 | —     | 72.20 |
| 120 | FCN-244F120-G/1 | 20 | 24.13 | 40 | 49.53 | —  | 77.47 | 90.09 | 82.81 | 25.93 | 51.53 | 87.44 |

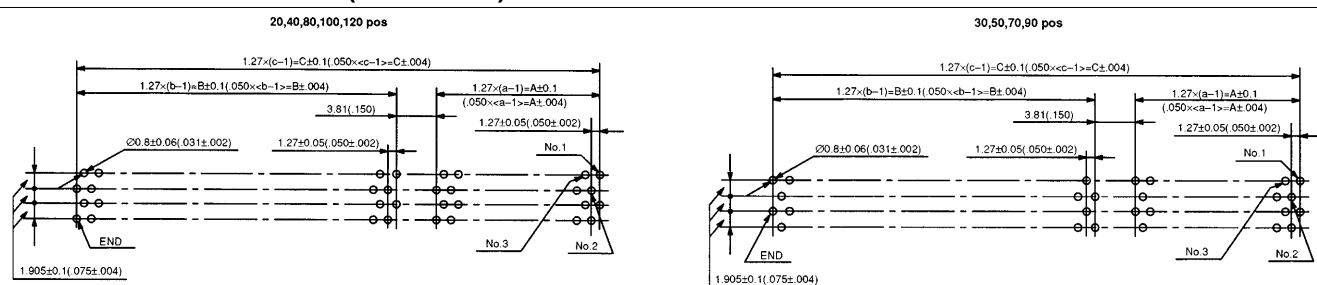
# FCN-244F\*\*\*-G/2 STRAIGHT SOCKET (for 10mm<.394in.> space)

## DIMENSIONS



Unit: mm (in.)

## MOUNTING HOLE LAYOUT (mount side)



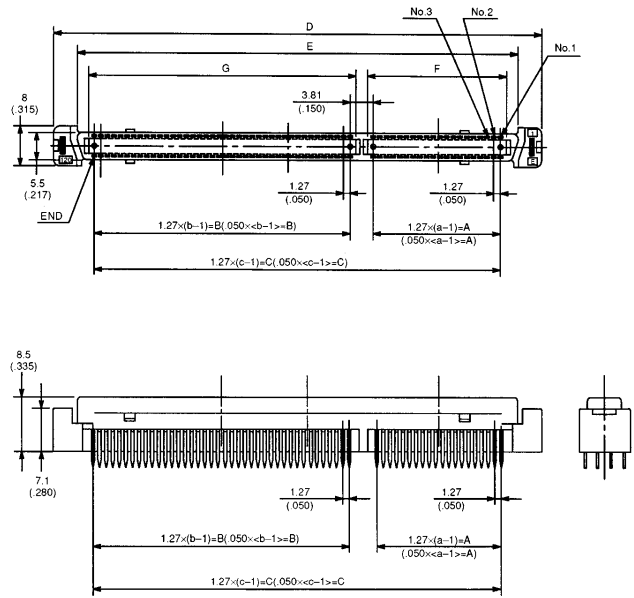
Unit: mm (in.)

## PART NUMBERS

| Pos | Part number     | a  | A     | b  | B     | c  | C     | D     | E     | F     | G     | H     |
|-----|-----------------|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|
| 20  | FCN-244F020-G/2 | —  | —     | —  | —     | 10 | 11.43 | 24.05 | 16.77 | 13.43 | —     | 21.40 |
| 30  | FCN-244F030-G/2 | —  | —     | —  | —     | 15 | 17.78 | 30.40 | 23.12 | 19.78 | —     | 27.75 |
| 40  | FCN-244F040-G/2 | —  | —     | —  | —     | 20 | 24.13 | 36.75 | 29.47 | 26.13 | —     | 34.10 |
| 50  | FCN-244F050-G/2 | —  | —     | —  | —     | 25 | 30.48 | 43.10 | 35.82 | 32.48 | —     | 40.45 |
| 60  | FCN-244F060-G/2 | —  | —     | —  | —     | 30 | 36.83 | 49.45 | 42.17 | 38.83 | —     | 46.80 |
| 70  | FCN-244F070-G/2 | —  | —     | —  | —     | 35 | 43.18 | 55.80 | 48.52 | 45.18 | —     | 53.15 |
| 80  | FCN-244F080-G/2 | —  | —     | —  | —     | 40 | 49.53 | 62.15 | 54.87 | 51.53 | —     | 59.50 |
| 90  | FCN-244F090-G/2 | —  | —     | —  | —     | 45 | 55.88 | 68.50 | 61.22 | 57.88 | —     | 65.85 |
| 100 | FCN-244F100-G/2 | —  | —     | —  | —     | 50 | 62.23 | 74.85 | 67.57 | 64.23 | —     | 72.20 |
| 120 | FCN-244F120-G/2 | 20 | 24.13 | 40 | 49.53 | —  | 77.47 | 90.09 | 82.81 | 25.93 | 51.53 | 87.44 |

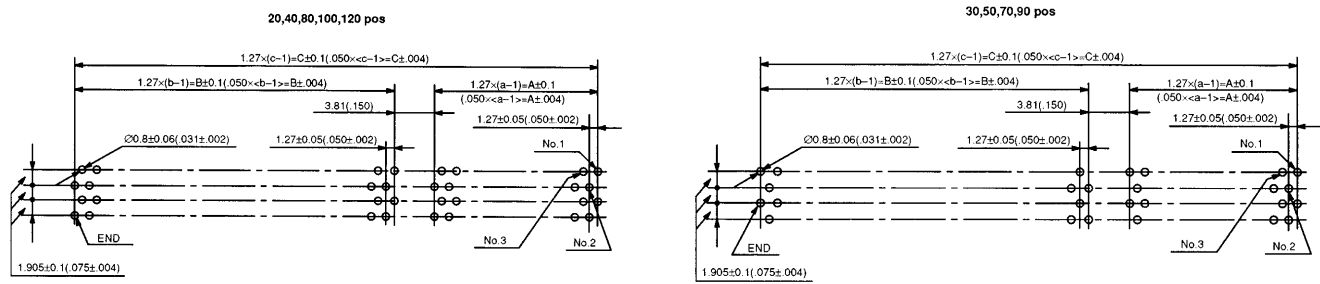
FCN-244F\*\*\*-G/3 STRAIGHT SOCKET (for 11mm<.433in.> space)

DIMENSIONS



Unit: mm (in.)

MOUNTING HOLE LAYOUT (mount side)



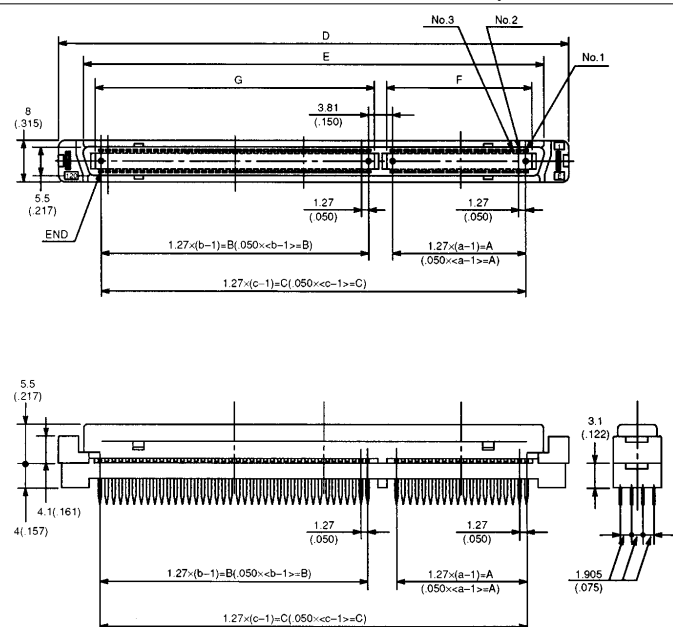
Unit: mm (in.)

PART NUMBERS

| Pos | Part number     | a  | A     | b  | B     | c  | C     | D     | E     | F     | G     | H     |
|-----|-----------------|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|
| 20  | FCN-244F020-G/3 | —  | —     | —  | —     | 10 | 11.43 | 24.05 | 16.77 | 13.43 | —     | 21.40 |
| 30  | FCN-244F030-G/3 | —  | —     | —  | —     | 15 | 17.78 | 30.40 | 23.12 | 19.78 | —     | 27.75 |
| 40  | FCN-244F040-G/3 | —  | —     | —  | —     | 20 | 24.13 | 36.75 | 29.47 | 26.13 | —     | 34.10 |
| 50  | FCN-244F050-G/3 | —  | —     | —  | —     | 25 | 30.48 | 43.10 | 35.82 | 32.48 | —     | 40.45 |
| 60  | FCN-244F060-G/3 | —  | —     | —  | —     | 30 | 36.83 | 49.45 | 42.17 | 38.83 | —     | 46.80 |
| 70  | FCN-244F070-G/3 | —  | —     | —  | —     | 35 | 43.18 | 55.80 | 48.52 | 45.18 | —     | 53.15 |
| 80  | FCN-244F080-G/3 | —  | —     | —  | —     | 40 | 49.53 | 62.15 | 54.87 | 51.53 | —     | 59.50 |
| 90  | FCN-244F090-G/3 | —  | —     | —  | —     | 45 | 55.88 | 68.50 | 61.22 | 57.88 | —     | 65.85 |
| 100 | FCN-244F100-G/3 | —  | —     | —  | —     | 50 | 62.23 | 74.85 | 67.57 | 64.23 | —     | 72.20 |
| 120 | FCN-244F120-G/3 | 20 | 24.13 | 40 | 49.53 | —  | 77.47 | 90.09 | 82.81 | 25.93 | 51.53 | 87.44 |

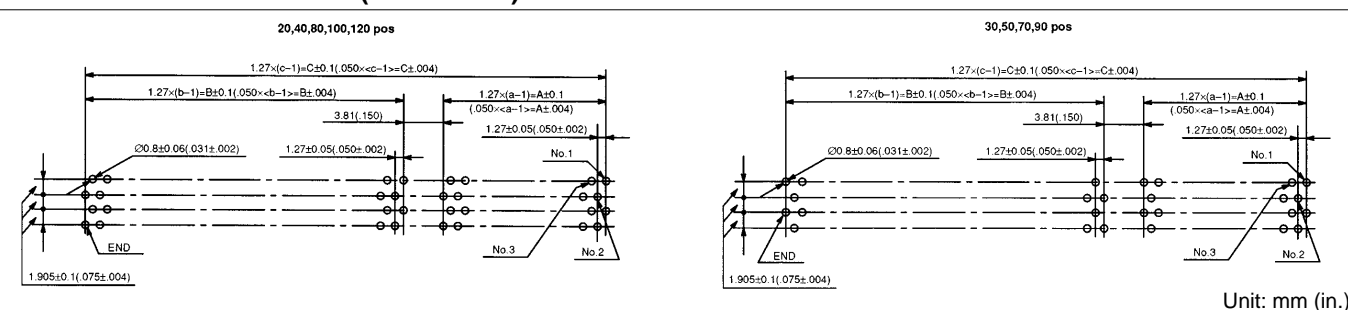
# FCN-244F\*\*\*-G/4 STRAIGHT SOCKET (for 12mm<.472in.> space)

## DIMENSIONS



Unit: mm (in.)

## MOUNTING HOLE LAYOUT (mount side)



Unit: mm (in.)

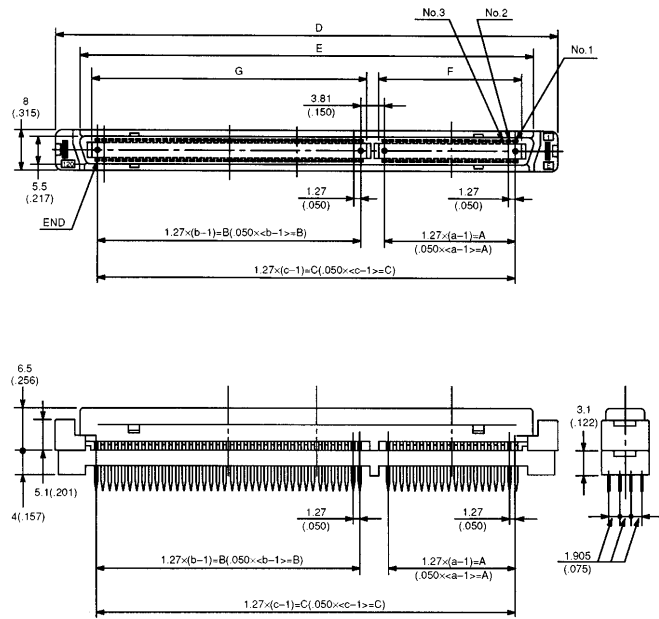
## PART NUMBERS

| Pos | Part number     | a  | A     | b  | B     | c  | C     | D     | E     | F     | G     | H     |
|-----|-----------------|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|
| 20  | FCN-244F020-G/4 | —  | —     | —  | —     | 10 | 11.43 | 24.05 | 16.77 | 13.43 | —     | 21.40 |
| 30  | FCN-244F030-G/4 | —  | —     | —  | —     | 15 | 17.78 | 30.40 | 23.12 | 19.78 | —     | 27.75 |
| 40  | FCN-244F040-G/4 | —  | —     | —  | —     | 20 | 24.13 | 36.75 | 29.47 | 26.13 | —     | 34.10 |
| 50  | FCN-244F050-G/4 | —  | —     | —  | —     | 25 | 30.48 | 43.10 | 35.82 | 32.48 | —     | 40.45 |
| 60  | FCN-244F060-G/4 | —  | —     | —  | —     | 30 | 36.83 | 49.45 | 42.17 | 38.83 | —     | 46.80 |
| 70  | FCN-244F070-G/4 | —  | —     | —  | —     | 35 | 43.18 | 55.80 | 48.52 | 45.18 | —     | 53.15 |
| 80  | FCN-244F080-G/4 | —  | —     | —  | —     | 40 | 49.53 | 62.15 | 54.87 | 51.53 | —     | 59.50 |
| 90  | FCN-244F090-G/4 | —  | —     | —  | —     | 45 | 55.88 | 68.50 | 61.22 | 57.88 | —     | 65.85 |
| 100 | FCN-244F100-G/4 | —  | —     | —  | —     | 50 | 62.23 | 74.85 | 67.57 | 64.23 | —     | 72.20 |
| 120 | FCN-244F120-G/4 | 20 | 24.13 | 40 | 49.53 | —  | 77.47 | 90.09 | 82.81 | 25.93 | 51.53 | 87.44 |



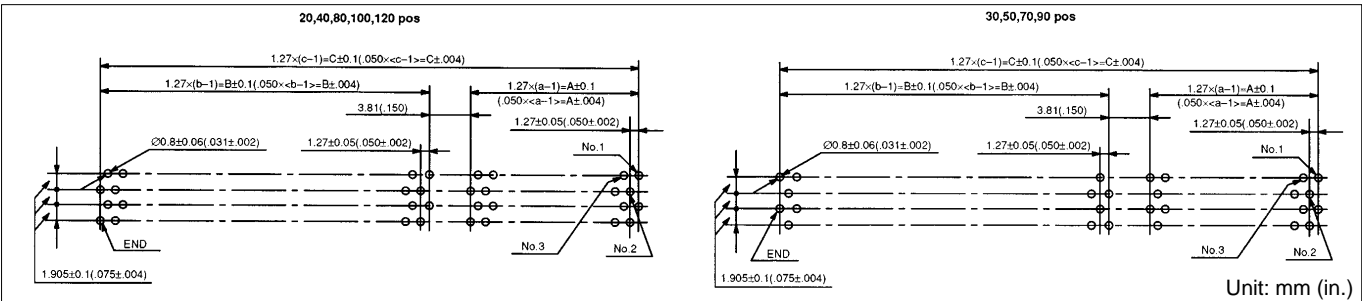
FCN-244F\*\*\*-G/5 STRAIGHT SOCKET (for 13mm<.512in.> space)

DIMENSIONS



Unit: mm (in.)

MOUNTING HOLE LAYOUT (mount side)



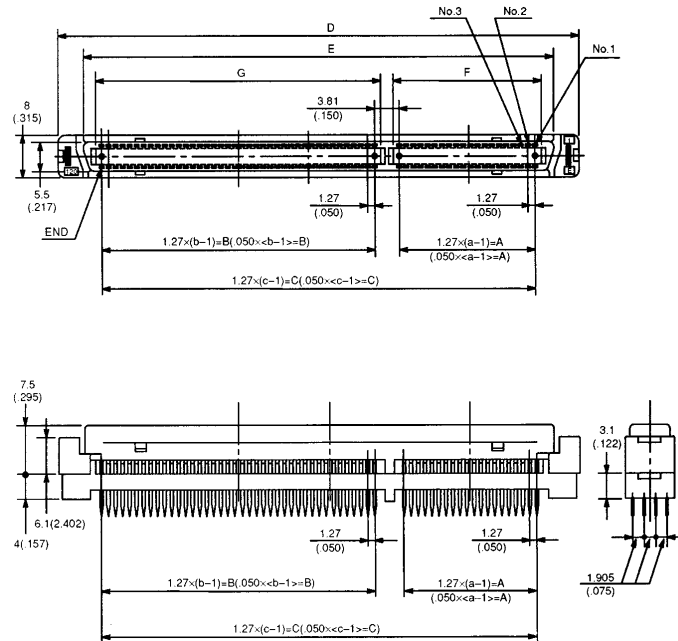
Unit: mm (in.)

PART NUMBERS

| Pos | Part number     | a  | A     | b  | B     | c  | C     | D     | E     | F     | G     | H     |
|-----|-----------------|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|
| 20  | FCN-244F020-G/5 | —  | —     | —  | —     | 10 | 11.43 | 24.05 | 16.77 | 13.43 | —     | 21.40 |
| 30  | FCN-244F030-G/5 | —  | —     | —  | —     | 15 | 17.78 | 30.40 | 23.12 | 19.78 | —     | 27.75 |
| 40  | FCN-244F040-G/5 | —  | —     | —  | —     | 20 | 24.13 | 36.75 | 29.47 | 26.13 | —     | 34.10 |
| 50  | FCN-244F050-G/5 | —  | —     | —  | —     | 25 | 30.48 | 43.10 | 35.82 | 32.48 | —     | 40.45 |
| 60  | FCN-244F060-G/5 | —  | —     | —  | —     | 30 | 36.83 | 49.45 | 42.17 | 38.83 | —     | 46.80 |
| 70  | FCN-244F070-G/5 | —  | —     | —  | —     | 35 | 43.18 | 55.80 | 48.52 | 45.18 | —     | 53.15 |
| 80  | FCN-244F080-G/5 | —  | —     | —  | —     | 40 | 49.53 | 62.15 | 54.87 | 51.53 | —     | 59.50 |
| 90  | FCN-244F090-G/5 | —  | —     | —  | —     | 45 | 55.88 | 68.50 | 61.22 | 57.88 | —     | 65.85 |
| 100 | FCN-244F100-G/5 | —  | —     | —  | —     | 50 | 62.23 | 74.85 | 67.57 | 64.23 | —     | 72.20 |
| 120 | FCN-244F120-G/5 | 20 | 24.13 | 40 | 49.53 | —  | 77.47 | 90.09 | 82.81 | 25.93 | 51.53 | 87.44 |

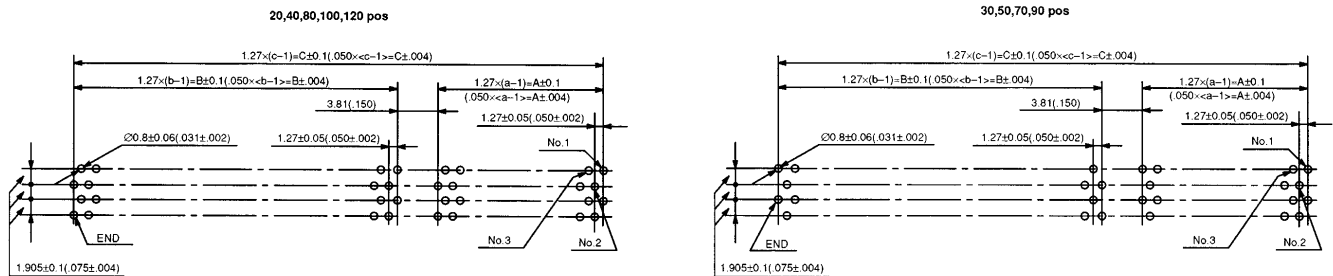
# FCN-244F\*\*\*-G/6 STRAIGHT SOCKET (for 14mm<.551in.> space)

## DIMENSIONS



Unit: mm (in.)

## MOUNTING HOLE LAYOUT (mount side)



Unit: mm (in.)

## PART NUMBERS

| Pos | Part number     | a  | A     | b  | B     | c  | C     | D     | E     | F     | G     | H     |
|-----|-----------------|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|
| 20  | FCN-244F020-G/6 | —  | —     | —  | —     | 10 | 11.43 | 24.05 | 16.77 | 13.43 | —     | 21.40 |
| 30  | FCN-244F030-G/6 | —  | —     | —  | —     | 15 | 17.78 | 30.40 | 23.12 | 19.78 | —     | 27.75 |
| 40  | FCN-244F040-G/6 | —  | —     | —  | —     | 20 | 24.13 | 36.75 | 29.47 | 26.13 | —     | 34.10 |
| 50  | FCN-244F050-G/6 | —  | —     | —  | —     | 25 | 30.48 | 43.10 | 35.82 | 32.48 | —     | 40.45 |
| 60  | FCN-244F060-G/6 | —  | —     | —  | —     | 30 | 36.83 | 49.45 | 42.17 | 38.83 | —     | 46.80 |
| 70  | FCN-244F070-G/6 | —  | —     | —  | —     | 35 | 43.18 | 55.80 | 48.52 | 45.18 | —     | 53.15 |
| 80  | FCN-244F080-G/6 | —  | —     | —  | —     | 40 | 49.53 | 62.15 | 54.87 | 51.53 | —     | 59.50 |
| 90  | FCN-244F090-G/6 | —  | —     | —  | —     | 45 | 55.88 | 68.50 | 61.22 | 57.88 | —     | 65.85 |
| 100 | FCN-244F100-G/6 | —  | —     | —  | —     | 50 | 62.23 | 74.85 | 67.57 | 64.23 | —     | 72.20 |
| 120 | FCN-244F120-G/6 | 20 | 24.13 | 40 | 49.53 | —  | 77.47 | 90.09 | 82.81 | 25.93 | 51.53 | 87.44 |