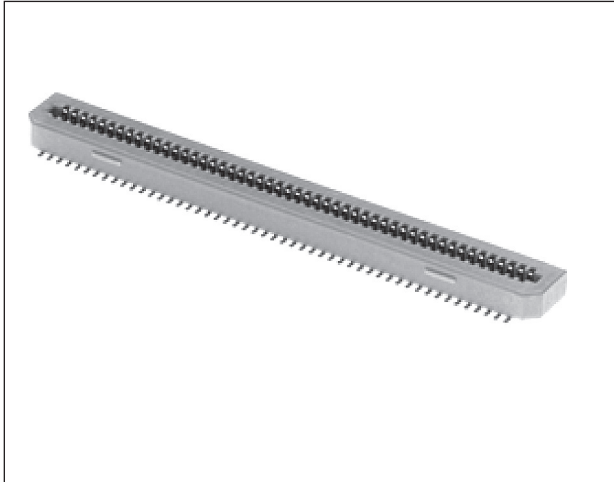


# 3M™ Pak 8 Socket Connector

0.8 mm, Vertical, Surfacemount, 3 mm to 8 mm Stack Height

P08 Series



- 0.8 mm pitch connector system
- Mated heights available from 3 mm to 8 mm
- Surface mount design
- Locking mechanism with audible click when fully mated
- Tape and reel with suction covers available for automated assembly placement
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: July 9, 2012

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## Physical

### Insulation

Material: High Temp Thermo Plastic  
Flammability: UL 94V-0  
Color: Natural

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 50  $\mu$ " [1.25  $\mu$ m] Nickel  
Wiping Area: 8  $\mu$ " [0.20  $\mu$ m] Gold  
Solder Tails: Gold Flash

Mating Compatibility: P08 Series Plugs. TS-1096

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## Electrical

Current Rating: 0.5 A

Voltage Rating: 60 V<sub>AC/DC</sub>

Insulation Resistance: 10<sup>3</sup> M $\Omega$  min. at 500 V<sub>DC</sub>

Withstanding Voltage: 250 V<sub>AC</sub> for 1 minute

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## Environmental

Temperature Rating: -55°C to +85°C

Process Rating: 260°C (profile per J-STD-020)

Moisture Sensitivity Level: MSL 1 (per J-STD-020)



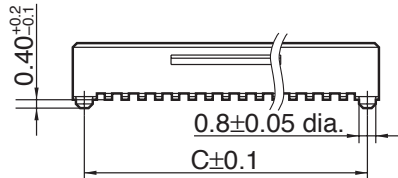
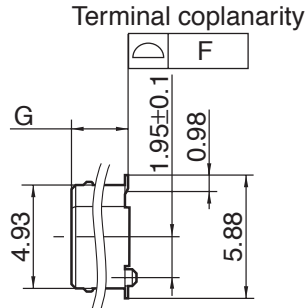
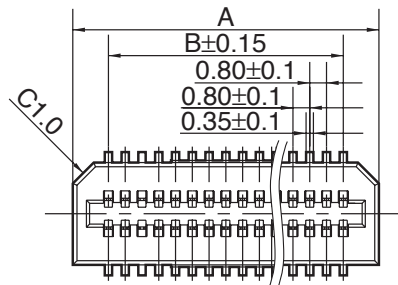
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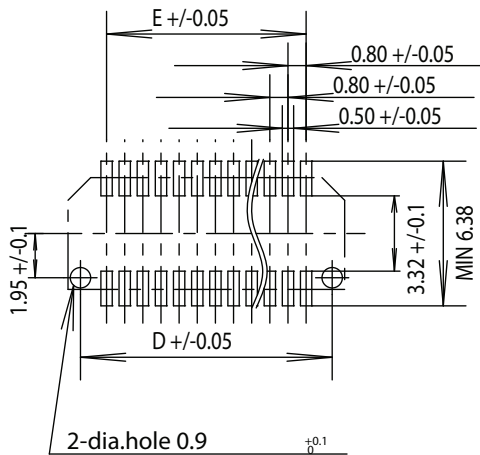
# 3M™ Pak 8 Socket Connector

0.8 mm, Vertical, Surfacemount, 3 mm to 8 mm Stack Height

P08 Series



Recommended PC board pattern  
(TOP VIEW)



## Dimensions

| No of Contacts | A    | B    | C    | D    | E    | F    |
|----------------|------|------|------|------|------|------|
| 16             | 9.0  | 5.6  | 7.9  | 7.9  | 5.6  | 0.1  |
| 20             | 10.6 | 7.2  | 9.5  | 9.5  | 7.2  | 0.1  |
| 24             | 11.4 | 8.8  | 11.1 | 11.1 | 8.8  | 0.1  |
| 26             | 13.0 | 9.6  | 11.9 | 11.9 | 9.6  | 0.1  |
| 30             | 14.6 | 11.2 | 13.5 | 13.5 | 11.2 | 0.1  |
| 40             | 18.6 | 15.2 | 17.5 | 17.5 | 15.2 | 0.1  |
| 50             | 23.4 | 19.2 | 21.5 | 21.5 | 19.2 | 0.15 |
| 60             | 27.4 | 23.2 | 25.5 | 25.5 | 23.2 | 0.15 |
| 80             | 35.4 | 31.2 | 33.5 | 33.5 | 31.2 | 0.15 |
| 100            | 43.4 | 39.2 | 41.5 | 41.5 | 39.2 | 0.15 |

## Stacking Matrix

|          |       | Stack Height When Mated To: |        |        |
|----------|-------|-----------------------------|--------|--------|
| Skt Type | Dim G | A Plug                      | B Plug | C Plug |
| A        | 2.2   | 3                           | 4      | 5      |
| B        | 5.2   | 6                           | 7      | 8      |

Not Available:  
16 Contact: B Socket & C Plug (5, 6, 7 and 8 mm)  
24 Contact: B Plug (4 and 7 mm)

| mm<br>(inch)           |     |     |
|------------------------|-----|-----|
| Tolerance Unless Noted |     |     |
|                        | .0  | .00 |
| mm                     | ±.3 | ±.3 |

( ) Dimensions used for Reference Only

## Ordering Information

P08 - XXX - SLXX - X - G (RIA E1 & C1 apply)

Contact Quantity  
See Table

Packaging:  
T = Tape & Reel (opt)  
Blank = Tube Pack

Height Options:  
A = 2.2 mm Height  
B = 5.2 mm Height (Excludes 16 Contact)

Vacuum Pickup:  
C = Adhesive Suction Cover  
M = Molded suction cover (preferred for RoHS processes)  
Blank = None  
(M options require Tape and Reel Packaging)

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Sheet 2 of 2



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