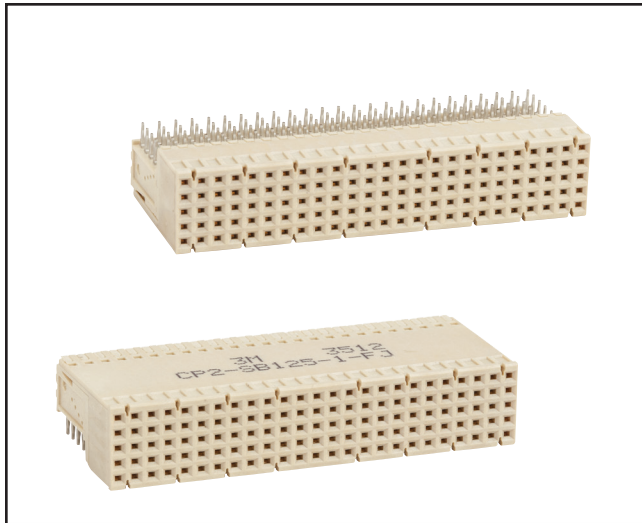


# 3M™ CP2 Press-Fit Socket

2 mm Type B, 95, 110, and 125 Signal Contacts, Right Angle

CP2 Series



- 25 mm basic system unit
- 50 mm module
- Designed according to IEC 61076-4-101 and IEC 60352-5 Standards
- 2 mm grid spacing allows for high signal density at low cost
- “Eye of the Needle” compliant pin press-fit design helps reduce manufacturing time and cost
- Additional grounding row available for improved ground bounce and EMI immunity
- Mates with 5 row 3M™ HM, and CP2 Headers
- End-to-end stackable with 5 row 3M™ HSHM, UHM, HM, and CP2 Sockets
- 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 16, 2015

TS-2268-B  
Sheet 1 of 2

## Physical

### Insulation:

Material: High Temperature Thermoplastic (LCP)

Flammability: UL94V-0

### Contact:

Material: Copper Alloy

Plating: See Ordering Information

## Mechanical

Mating Force:  $\leq 0.75\text{N/PIN}$

Withdrawal Force:  $\geq 0.15\text{N/PIN}$

Mating and Un-mating Operations: 200 for KR plating

Application: This module is not suitable for stand-alone use. (Refer to IEC-61076-4-101)

## Electrical

Current Rating: 1.0 Amperes at 70°C with all contacts powered

Contact Resistance:  $\leq 20\text{ m}\Omega$

Insulation Resistance:  $\geq 10,000\text{ M}\Omega$

Test Voltage: 750 VAC<sub>RMS</sub>

## Environmental

Temperature Rating: -55°C to +125°C

## PCB Data

Recommended PCB Plated Through Hole:  $\Theta 0.6\pm 0.05\text{ mm}$

Drill hole diameter:  $\Theta 0.7\pm 0.02\text{ mm}$

Hole platings Cu 25~50  $\mu\text{m}$ , Sn<10  $\mu\text{m}$

PCB thickness: 1.4 - 4.2 mm

Press-In Force:  $\leq 204\text{ N/pin}$  on nominal hole diameter

Retention Force:  $\geq 13.5\text{ N/pin}$  on nominal hole diameter



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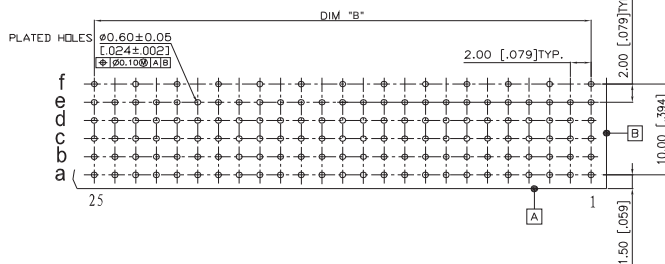
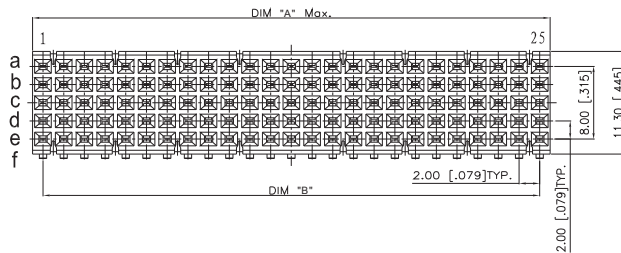
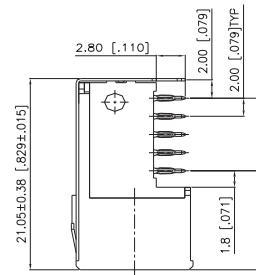
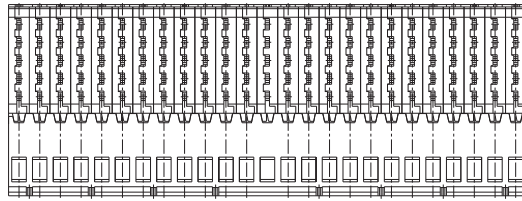
For technical, sales or ordering information call

**800-225-5373**

# 3M™ CP2 Press-Fit Socket

2 mm Type B, 95, 110, and 125 Signal Contacts, Right Angle

CP2 Series



Recommended PCB Layout

| Tolerance Unless Noted |     |      |
|------------------------|-----|------|
| mm                     | ±0. | ±0   |
| mm                     | ±1  | ±0.3 |

[ ] Dimensions for Reference only

| Signal Contact Quantity | Dimension A | Dimension B |
|-------------------------|-------------|-------------|
| 95                      | 38.00       | 36.00       |
| 110                     | 44.00       | 42.00       |
| 125                     | 50.00       | 48.00       |

## Ordering Information

### CP2-SBXXX-X1-XXXX

Number of Signal Contacts: \_\_\_\_\_  
095, 110 and 125

Shield Options: \_\_\_\_\_  
G= Upper Shield  
Blank= No Shield

Plating Options

FJ= 10~20 μ" Gold Contact Area  
100~200 μ" Matte Tin  
50~80 μ" Nickel Underplate  
(RIA E1 & C1 apply)  
KR= 30~40 μ" Gold Contact Area  
100~200 μ" Matte Tin  
50~80 μ" Nickel Underplate  
(RIA E1 & C1 apply)

• This diagram serves only for Part Number descriptive definitions.

PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR CUSTOMER SPECIFIC PRODUCT CONFIGURATIONS.

TS-2268-B  
Sheet 2 of 2



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