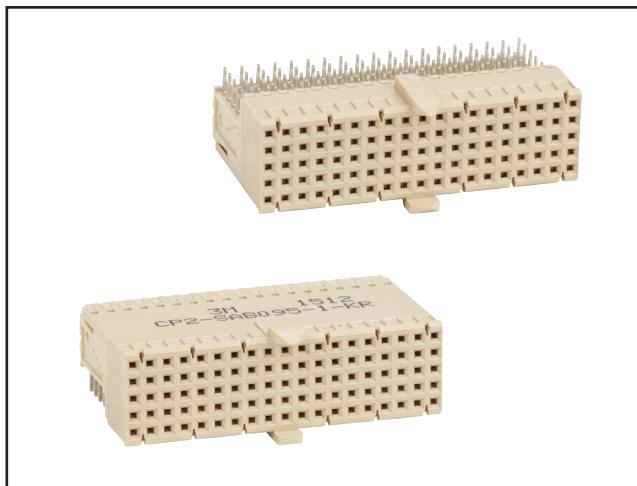


# 3M™ CP2 Press-Fit Socket

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

CP2 Series



- 25 mm basic system unit
- 38, 44 and 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 reduces 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 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

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## Physical

### Insulation:

Material: High Temperature Thermoplastic (LCP)

Flammability: UL94V-0

### Contact:

Material: Copper Alloy

Plating: See Ordering Information

## Mechanical

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

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

Mating and Un-mating Operations: 200 for KR plating

## 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 Ratings: -55°C to +125°C

## PCB Data

Recommended PCB Plated Through Hole:  $\Theta 0.6\pm0.05\text{ mm}$

Drill hole diameter:  $\Theta 0.7\pm0.02\text{ mm}$

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

**3M**

Electronics Materials Solutions Division

Interconnect Solutions

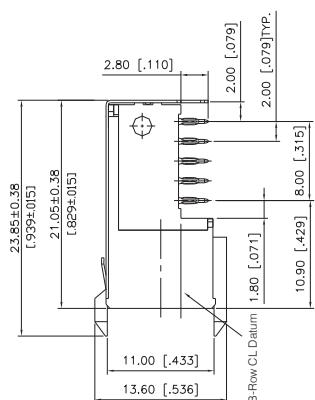
<http://www.3Mconnectors.com>

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# 3M™ CP2 Press-Fit Socket

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

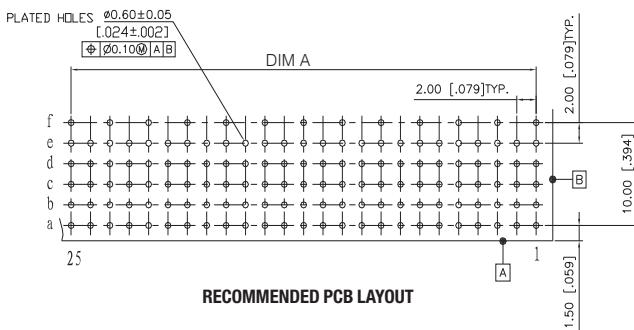
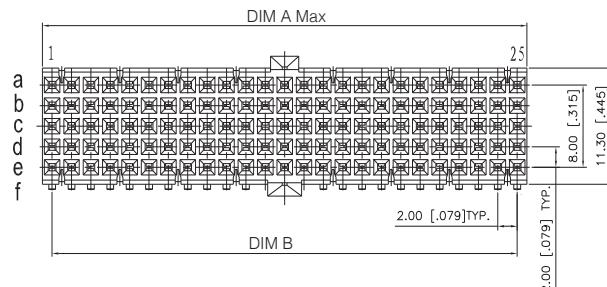
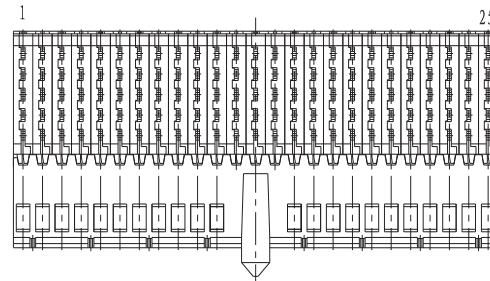
CP2 Series



Tolerance Unless Noted		
	±0.	±.0
mm	±1	±0.3
inches	±0.039	±0.012

[ ] Dimensions for Reference only

Signal Contact Quantity	Dimension A	Dimension B
95	38.00 [1.496]	36.00 [1.417]
110	44.00 [1.732]	42.00 [1.653]
125	50.00 [1.968]	48.00 [1.890]



## Ordering Information

CP2-SABXXX-X1-XXXX

Number of Signal Contacts: \_\_\_\_\_

095, 110 and 125

Shield Options: \_\_\_\_\_

G= Upper Shield

Blank= No Shield

### Plating Options

FJ= 10–20  $\mu$ " Gold Contact Area  
100–200  $\mu$ " Matte Tin  
50–80  $\mu$ " Nickel Underplate  
(RIA E1 & C1 apply)

KR= 30–40  $\mu$ " Gold Contact Area  
100–200  $\mu$ " Matte Tin  
50–80  $\mu$ " 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.

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