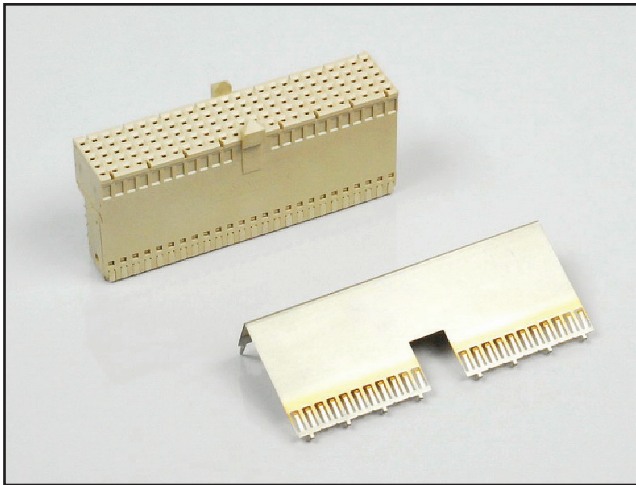


# 3M™ CP2 Press-Fit Socket

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™ MetPak™ HM and CP2 Headers
- End-to-end stackable with 5-row 3M™ MetPak™ HSHM, HM and CP2 Sockets
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: March 2, 2010

TS-2264-B  
Sheet 1 of 2

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## Physical

### Insulation:

Material: High Temperature Thermoplastic (LCP)

Flammability: UL94V-0

### Contact:

Material: Copper Alloy

Plating: See Ordering Information

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## Mechanical

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

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

Mating and Un-mating Operations: 50

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## Electrical

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

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

Test Voltage:  $750\text{ VAC}_{\text{RMS}}$

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## Environmental

Temperature Ratings:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

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## PCB Data

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

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

Hole platings: Cu 25~50  $\mu\text{m}$ , Sn or SnPb < 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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**3M**

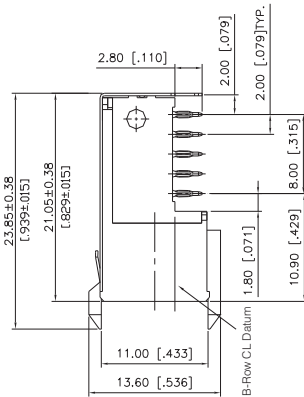
Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnector.com>

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# 3M™ CP2 Press-Fit Socket

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

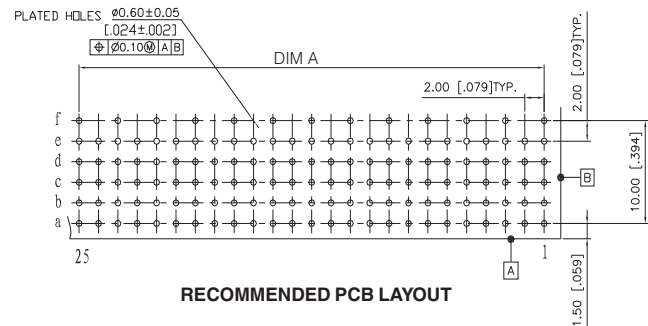
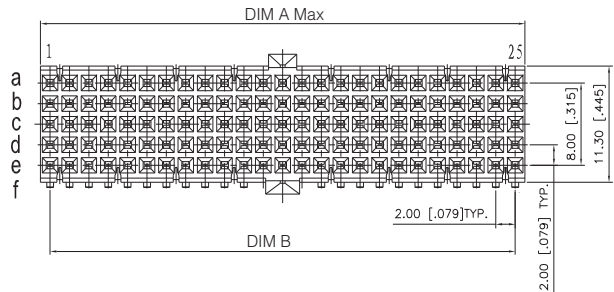
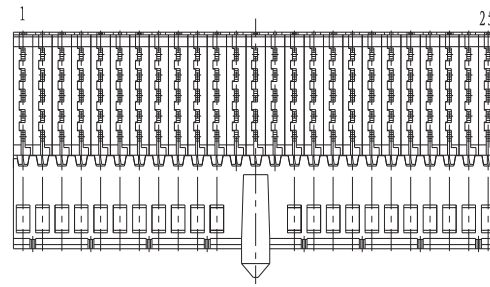
CP2 Series



Tolerance Unless Noted			
	mm [Inch]		
	0.	.0	.00
mm	1	0.3	0.13

[ ] 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

TG30= 30–40 μm Gold Contact Area  
100–200 μm Bright Tin-Lead  
50–80 μm Nickel Underplate  
(RIA E2 & C2 apply)

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

KR= 30–40 μm Gold Contact Area  
100–200 μm Matte Tin  
50–80 μm 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-2264-B  
Sheet 2 of 2

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