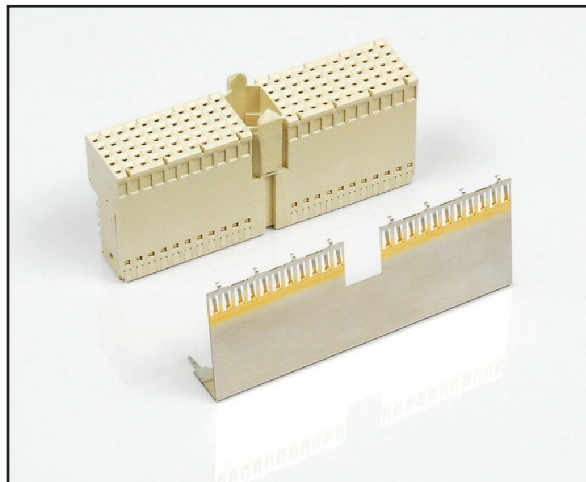


# 3M™ CP2 Press-Fit Socket

2 mm Type A 110 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 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

TS-2266-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: 200 for KR plating

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## 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>

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## Environmental

Temperature Ratings: -55°C to +125°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 < 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



Electronics Materials Solutions Division

Interconnect Solutions

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

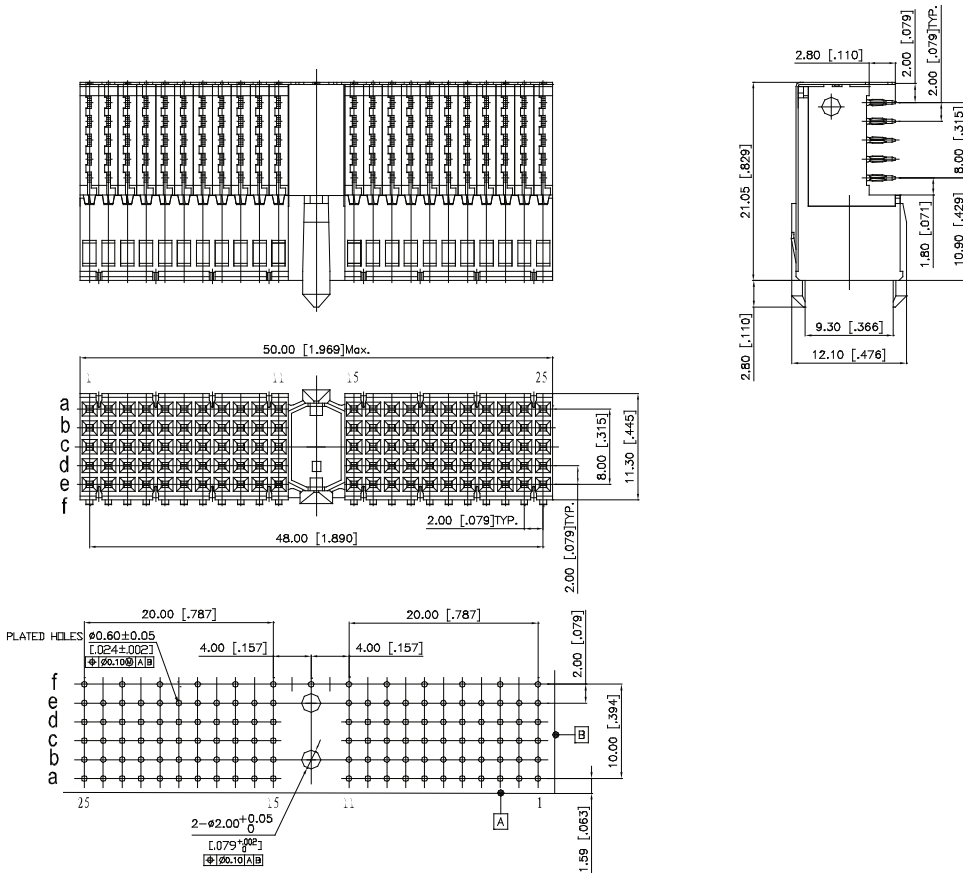
For technical, sales or ordering information call

800-225-5373

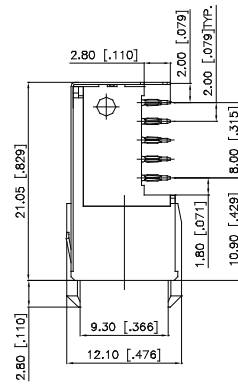
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Recommended PCB Layout



Tolerance Unless Noted			
	±0.	±.0	±.00
mm	±1	±0.3	±0.13

[ ] Dimensions for Reference only

## Ordering Information

### CP2-SA110-X1-XXXX

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.



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Unless otherwise noted, references to industry specifications are intended to indicate substantial compliance to the material elements of the specification. Such references should not be construed as a guarantee of compliance to all requirements in a given specification.

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