

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 for compliance information (RIA E1 & C1 apply)

Date Modified: July 16, 2015

TS-2264-C
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: $\leq 0.75\text{N/PIN}$
Withdrawl 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_{RMS}

Environmental

Temperature Ratings: -55°C to +125°C

PCB Data

Recommended PCB Plated Through Hole: $\varnothing 0.6\pm 0.05\text{ mm}$
Drill hole diameter: $\varnothing 0.7\pm 0.02\text{ mm}$
Hole platings: Cu 25~50 μm , Sn < 10 μm
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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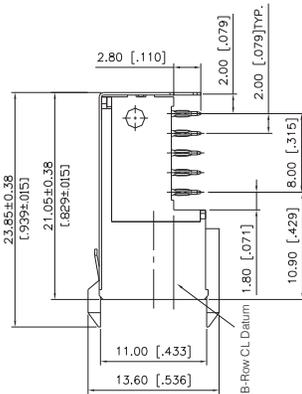
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Interconnect Solutions
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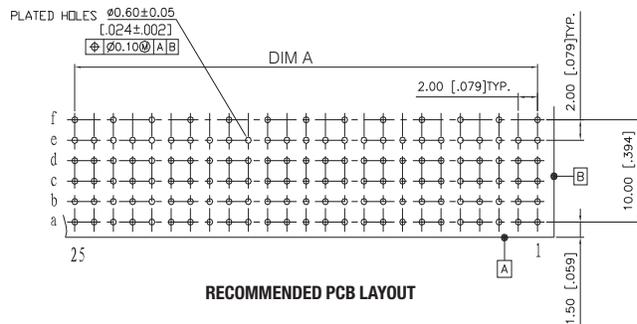
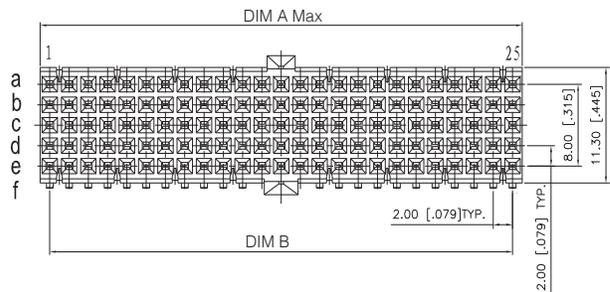
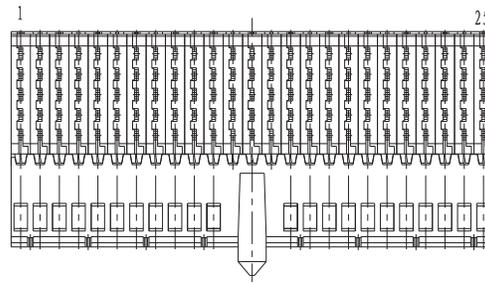
CP2 Series



Tolerance Unless Noted			
	±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]



RECOMMENDED PCB LAYOUT

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 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-2264-C
Sheet 2 of 2

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