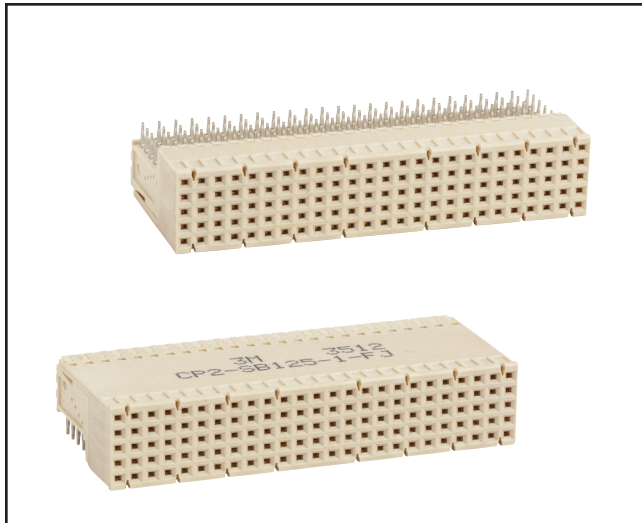


3M™ CP2 Press-Fit Socket

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 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_{RMS}

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 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

3M

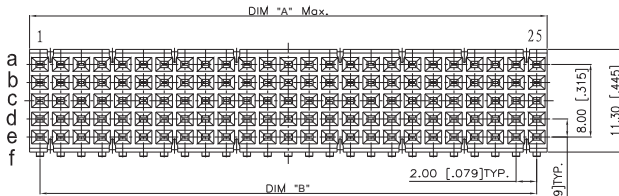
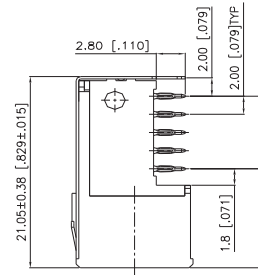
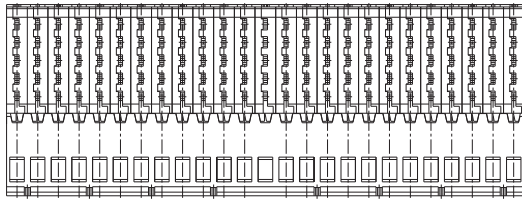
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3M™ CP2 Press-Fit Socket

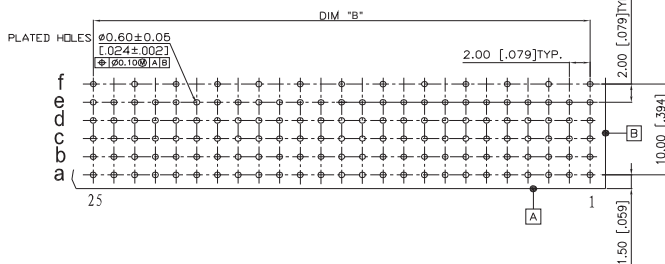
2 mm Type B, 95, 110, and 125 Signal Contacts, Right Angle

CP2 Series



Tolerance Unless Noted		
	mm	Inch
	±0.	±.0
mm	±1	±0.13

[] 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

Recommended PCB Layout

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 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-2268-B
Sheet 2 of 2



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