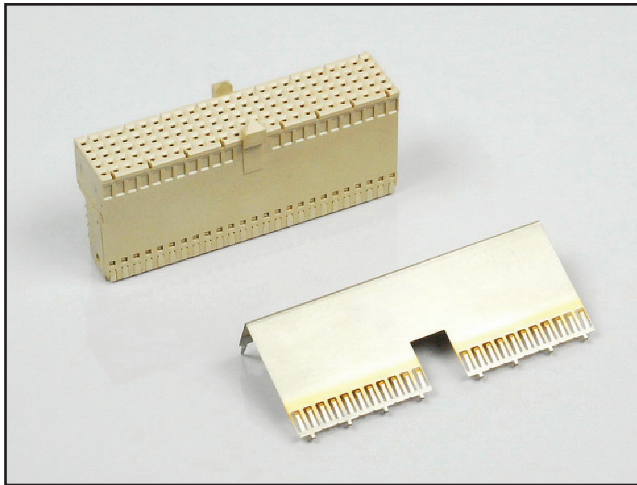


3M™ CP2 Press-Fit Socket

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 for compliance information (RIA E1 & C1 apply)

Date Modified: March 2, 2010

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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: 50

Electrical

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

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

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

Environmental

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

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 μm , Sn or SnPb < 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

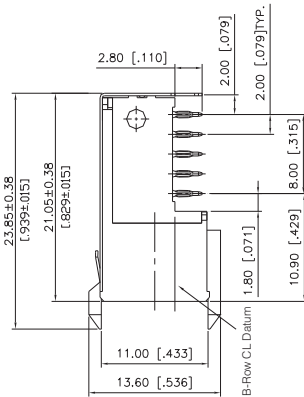
Electronic Solutions Division
Interconnect Solutions
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3M™ CP2 Press-Fit Socket

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

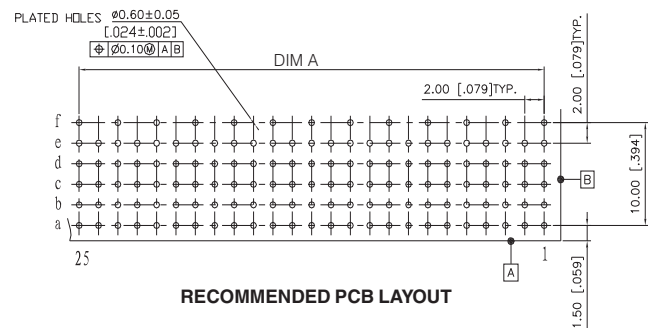
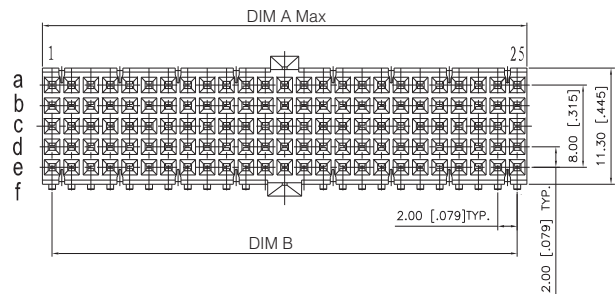
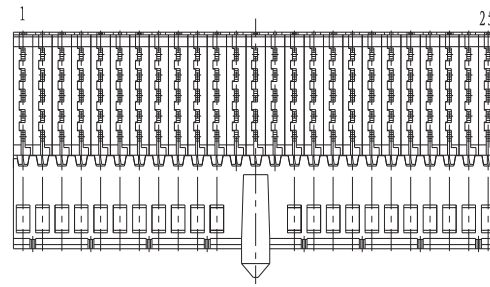
CP2 Series



mm [Inch]			
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

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.

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Sheet 2 of 2

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