



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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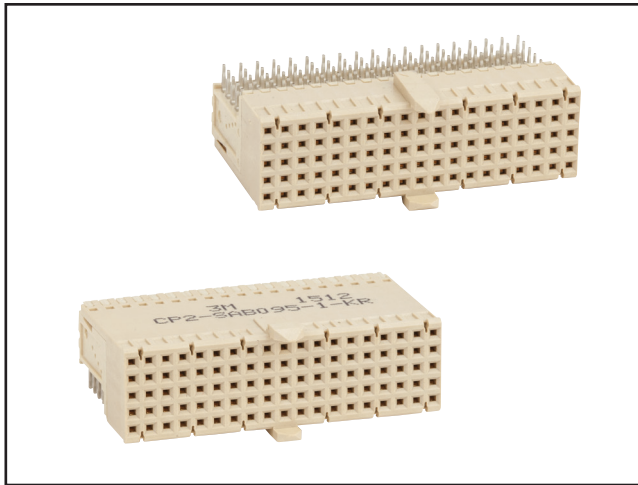
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

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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

3M

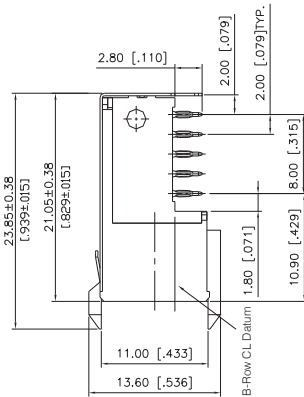
Electronics Materials Solutions Division
Interconnect Solutions
<http://www.3Mconnectors.com>

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3M™ CP2 Press-Fit Socket

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

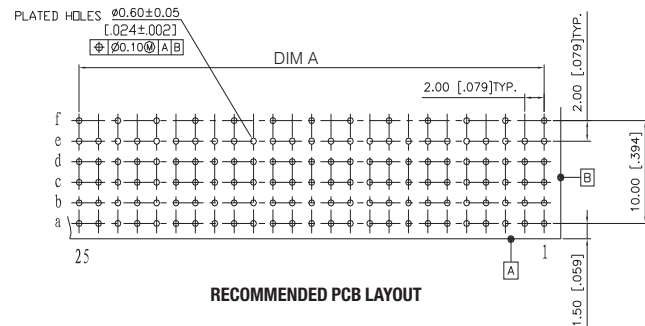
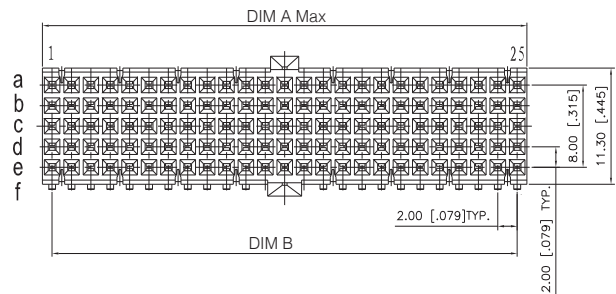
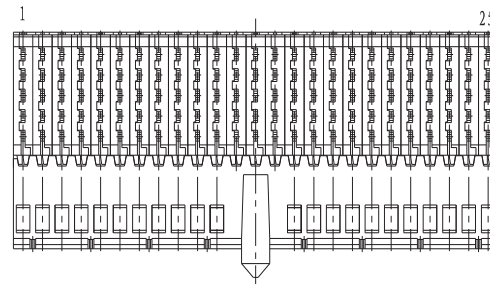
CP2 Series



Tolerance Unless Noted			
	±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.

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