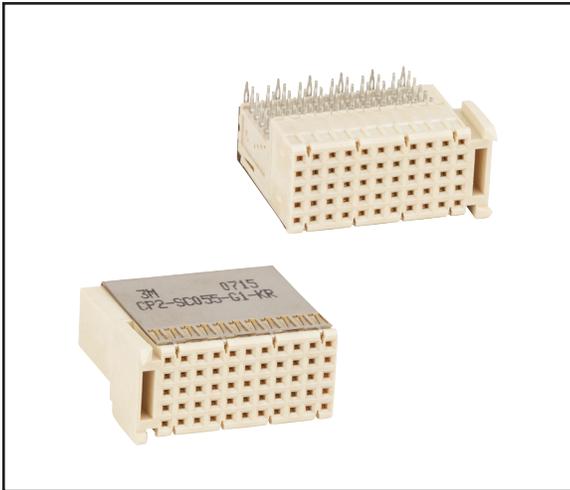


3M™ CP2 Press-Fit Socket

2 mm Type C, 55 Signal Contacts, Left Guidance, Right Angle

CP2 Series



- 25 mm basic system unit
- 20 mm module
- Designed according to IEC 61076-4-101 and IEC 917 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 rows 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 15, 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: $\leq 0.75\text{N/PIN}$
Withdrawal 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

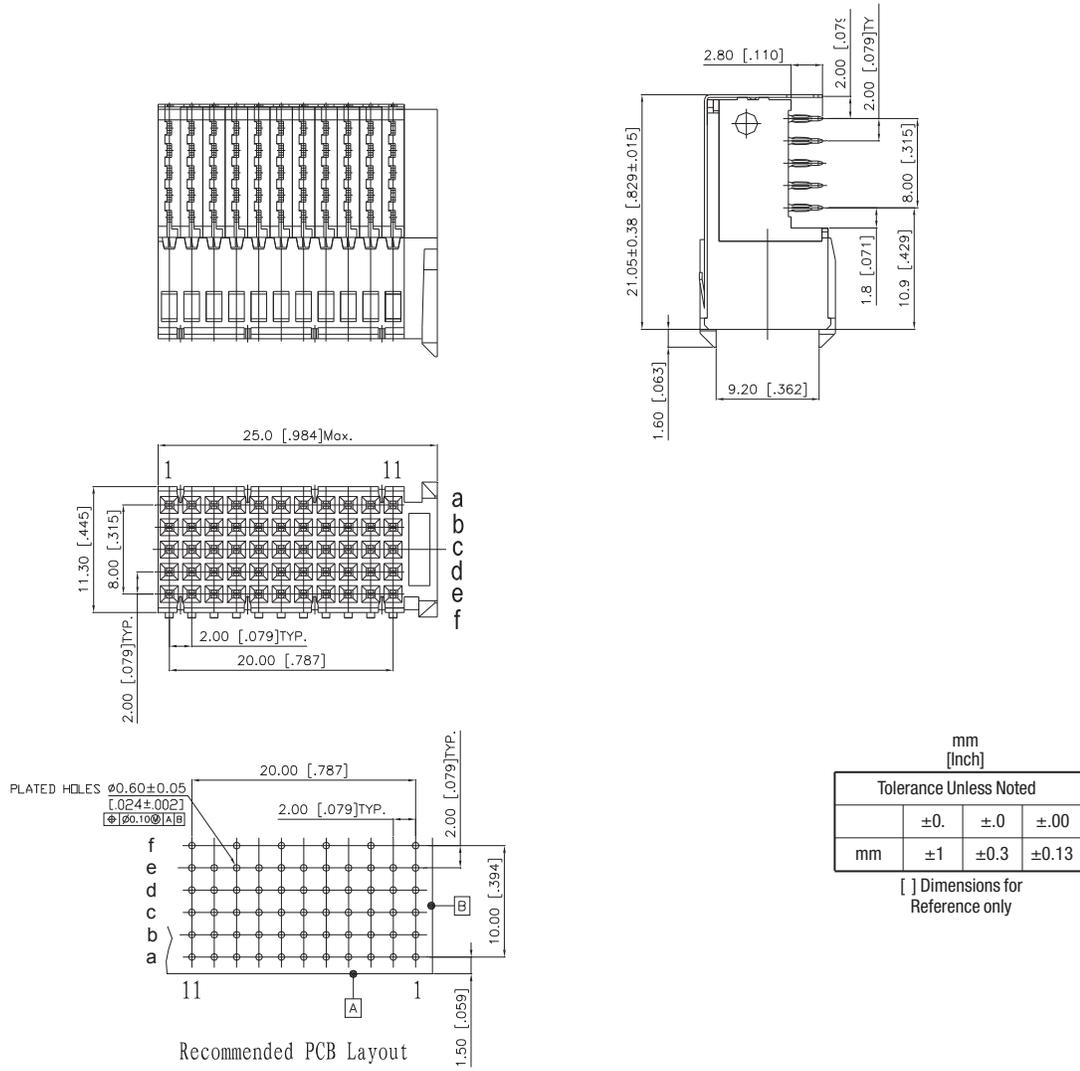
Recommended PCB Plated Through Hole: $\varnothing 0.6 \pm 0.05\text{ mm}$
Drill hole diameter $\varnothing 0.7 \pm 0.02\text{ mm}$
Hole platings Cu 25~50 μm , Sn<10 μm
PCB thickness: 2.4 - 5.6 mm for 3.7 mm tails, 1.4 - 5.6 mm for 2.3 mm tails
Press-In Force: $\leq 204\text{ N/pin}$ on nominal hole diameter
Retention Force: $\geq 13.5\text{ N/pin}$ on nominal hole diameter



3M™ CP2 Press-Fit Socket

2 mm Type C, 55 Signal Contacts, Left Guidance, Right Angle

CP2 Series



mm [Inch]			
Tolerance Unless Noted			
	±0.	±.0	±.00
mm	±1	±.3	±0.13

[] Dimensions for Reference only

Ordering Information

CP2-SC055-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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Sheet 2 of 2

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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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