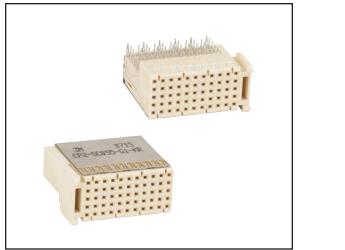
3M[™] CP2 Press-Fit Socket

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



- 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)

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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: ≤0.75N/PIN Withdrawal Force: ≥0.15N/PIN Mating and Un-mating Operations 200 for KR plating

Electrical

Current Rating:1.0 Amperes at 70°C with all contacts poweredContact 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: $\Theta 0.6 \pm 0.05 \text{ mm}$ Drill hole diameter $\Theta 0.7 \pm 0.02 \text{ mm}$ Hole platings $Cu 25 \sim 50 \mu m$, $Sn < 10 \mu m$ PCB thickness:2.4 - 5.6 mm for 3.7 mm tails, 1.4 - 5.6 mm for 2.3 mm tailsPress-In Force: $\geq 204 \text{ N/pin on nominal hole diameter}$ 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

076 T[970.] 2.80 [.110] 2.00 00.0 \oplus .05±0.38 [.829±.015] 8.00 10.9 [.429] .071] . 80 5 1.60 [.063] 9.20 [.362] 25.0 [.984]Max 11 а 11.30 [.445] .315] b c d <u>BEREBERE BEREBERE</u> 8.00 ABABABABABA ABABABABABA ALIANA e f 77 2.00 [.079]TYP 2.00 [.079]TYP. 20.00 [.787] mm 2.00 [.079]TYP. [Inch] 20.00 [.787] PLATED HOLES <u>00.60±0.05</u> [.024±.002] (+)00.100[A]B **Tolerance Unless Noted** 2.00 [.079]TYF ±0. ±.0 ±.00 f ±1 ±0.3 ±0.13 mm е 10.00 [.394] [] Dimensions for d Reference only в С b а 11 1 [059] A 1.50 Recommended PCB Layout **Ordering Information** CP2-SC055-X1-XXXX **Plating Options** $FJ=~10\sim 20\,\mu^{\prime\prime}\, \text{Gold Contact Area}$ $10 \sim 200 \mu$ " Matte Tin $50 \sim 80 \mu$ " Nickel Underplate (RIA E1 & C1 apply) Shield Options: $KR=~30\sim 40~\mu^{\prime\prime}$ Gold Contact Area G = Upper Shield 100 ~ 200 µ" Matte Tin $50 \sim 80 \,\mu$ " Nickel Underplate Blank = No Shield (RIA E1 & C1 apply) • This diagram serves only for Part Number descriptive definitions. TS-2269-B PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR CUSTOMER SPECIFIC PRODUCT CONFIGURATIONS. Sheet 2 of 2

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

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