3M[™] Pak 10 Socket

1 mm Straight and Right Angle, Surface Mount

PK10 Series



- 1 mm pitch connector system
- Stacked, Horizontal or Vertical Mating
- Low profile 5 mm mated height
- Surface mount retention clips reduce stress on surface mount leads
- Keyed design helps prevent mating misalignment
- Hard Tray and Vacuum pickup for automated assembly placement
- RoHS Compliant. See the Regulatory Information
- Appendix (RIA) in the "RoHS Compliance" section of www.3Mconnector.com for compliance information (RIA E1 and C1 apply)

Date Modified: August 27, 2010

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Physical

Insulation:

Material: Glass Filled LCP

Flammability: UL 94V-0

Color: White

Materials:

Contact: Copper Alloy

Retention Clips: Copper Alloy

Contact Plating:

Underplating: $120\,\mu$ " [$3.0\,\mu$ m] Nickel

Wiping Area: 2 μ" [0.05 μm] min. Gold

Solder Tails: Gold Flash

Retention Clip Plating: Gold Flash over 120 μ" [3.0 μm] Nickel

Marking: Orientation Triangle

Electrical

Current Rating: 0.5 A

Contact Resistance: $50 \text{ m}\Omega$ max

Insulation Resistance: $1 \times 10^3 \,\mathrm{M}\Omega$ min at $500 \,\mathrm{V}_{\mathrm{DC}}$

Dielectric withstanding Voltage: 315 V_{AC} for 1 minute

Environmental

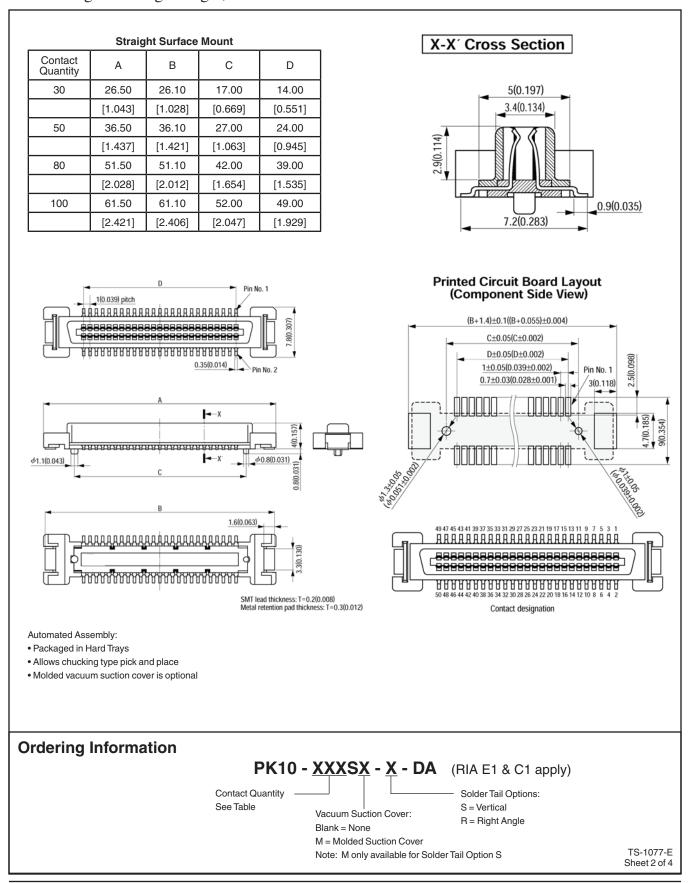
Temperature Rating: -55°C to +85°C

Process Rating: 260°C per J-STD-020C

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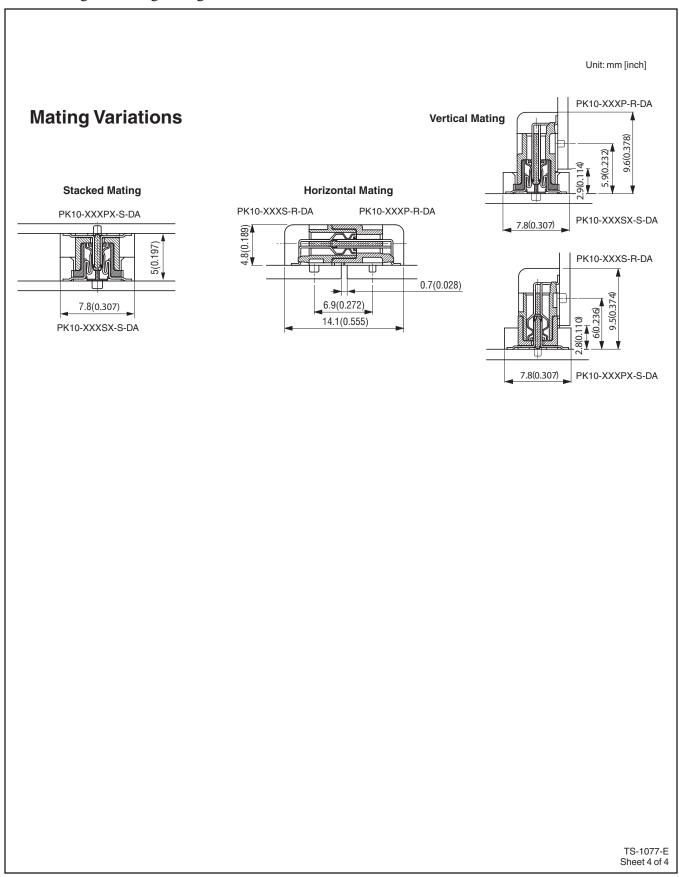
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Right Angle Surface Mount mm [inch] X-X' Cross Section Contact В С D Ε Α Quantity 2.9(0.114) 30 26.50 26.10 17.00 14.50 14.00 [1.043] [1.028] [0.669] [0.571] [0.551] 1.5(0.059) 50 36.50 36.10 27.00 24.50 24.00 [1.063] [0.945] [1.437] [1.421] [0.965]0.22(0.009) 80 51.50 51.10 42.00 39.50 39.00 [2.028] [2.012] [1.654] [1.555] [1.535] 100 61.50 61.10 52.00 49.50 49.00 [2.421] [2.406] [2.047] [1.949] [1.929] 1.1(0.043) 120 71.5 71.1 59.0 63.0 60.00 [2.815] [2.799][2.480][2.362][2.323]5(0.197) **Printed Circuit Board Layout** 0.5(0.020) pitch (Component Side View) (B+1.4)±0.1((B+0.055)±0.004) C±0.05(C±0.002) 1.75±0.05 D±0.05(D±0.002) (0.069±0.002) 0.3±0.03 (0.012±0.001) 3(0.118) 2.1(0.083) 2.25(0.089) 4.7(0.185)0.5+0.05 (0.020±0.002) 8.5(0.335) 1(0.039) Pin No. Pin No. 80 SMT lead thickness: T=0.22(0.009) Metal retention pad thickness: T=0.3(0.012) Pick and place vacuum surface Contact designation Automated Assembly: • Packaged in Hard Trays • Flat surface allows vacuum pick and place TS-1077-E Sheet 3 of 4

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