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: December 11, 2017

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

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

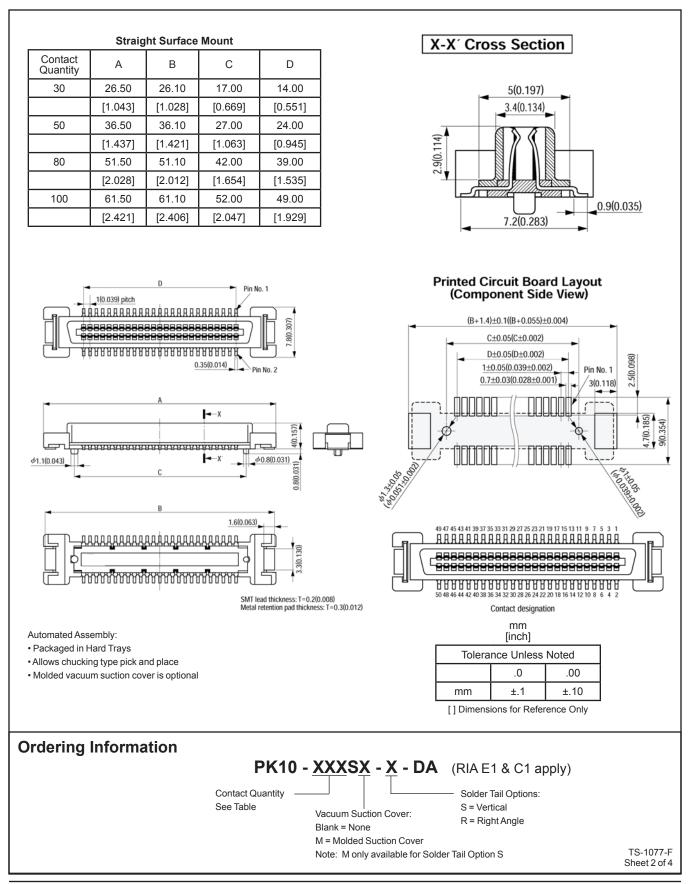
Dielectric withstanding Voltage: 315 V_{AC} for 1 minute

Environmental

Temperature Rating: -55°C to +85°C

Process Rating: 260°C per J-STD-020C

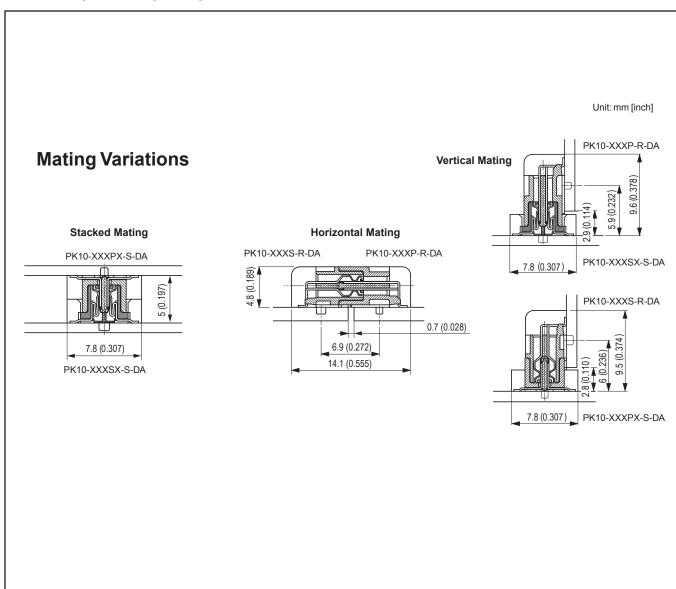
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	Right A	ngle Surfa	ce Mount m	m (inchl		V. V. Cross Sasking
Contact	A	В	С	D	E	X-X´ Cross Section
Quantity 30	26.50	26.10	18.00	14.50	14.00	2.9(0.114)
30	[1.043]	[1.028]	[0.709]	[0.571]	[0.551]	1.5(0.050)
50	36.50	36.10	28.00	24.50	24.00	1.5(0.059)
30	[1.437]	[1.421]	[1.102]	[0.965]	[0.945]	
80	51.50	51.10	43.00	39.50	39.00	(0.100)
	[2.028]	[2.012]	[1.693]	[1.555]	[1.535]	00.00
100	61.50	61.10	53.00	49.50	49.00	2.55(0.100)
100	[2.421]	[2.406]	[2.087]	[1.949]	[1.929]	5(0.197)
120	71.5	71.1	63.0	59.50	59.0	
	[2.815]	[2.799]	[2.480]	[2.343]	[2.323]	
-	D		Pin No			Printed Circuit Board Layout
0.5(0	0.020) pitch	0.2(0	.008) Pin N			Printed Circuit Board Layout (Component Side View)
						(B+1.4)±0.1((B+0.055)±0.004)
10000	A E 039) pitch			0.8(0.031) 4 8(0.189)	3.2(0.126)	C±0.05(C±0.002) 1.75±0.05 (0.069±0.002) 0.3±0.03 (0.012±0.001) 0.5±0.05 (0.020±0.002) Pin No. 1 S80 0.020±0.002) 1.75±0.05 (0.069±0.002) Pin No. 1
SMT lead thickness: T=0.22(0.009) Metal retention pad thickness: T=0.3(0.012) Pin No. 80 Pin No. 1 Pick and place vacuum surface Contact designation						
ntomated Assemb Packaged in Hard Pat surface allow	Trays	and place				

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TS-1077-F Sheet 4 of 4 Regulatory: For regulatory information about this product, contact your 3M representative.

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