3M[™] Pak 50 Plug

.050" Low Profile, Right Angle, Stacking Plug

P50L Series



- Low profile 0.276" (7 mm) from PCB surface
- High temperature insulator compatible with IR and wave soldering
- Glass filled 46 Nylon alignment plate offers high temperature resistance
- Optional plug standoffs allow offset of mated board by 1.0 - 4.0 mm
- Retention clips stabilize connector to the board during wave soldering
- 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 14, 2010

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Physical

Insulator:

Material: Glass Filled PPS

Flammability: UL 94V-0

Color: Brown

Alignment Plate: Glass filled Nylon (Black)

Contact Material: Phosphor Bronze

Plating:

Underplating: Nickel

Wiping Area: Gold Flash

Solder Tails: Gold Flash

Retaining Clips: Tin-Copper

Mating Compatibility: TS-1146, TS-2054

Electrical

Current Rating: 0.5 A

Insulation Resistance: $> 1 \times 10^9 \Omega$ at $500 V_{DC}$ **Withstanding Voltage:** $650 V_{AC}$ for 1 minute

Environmental

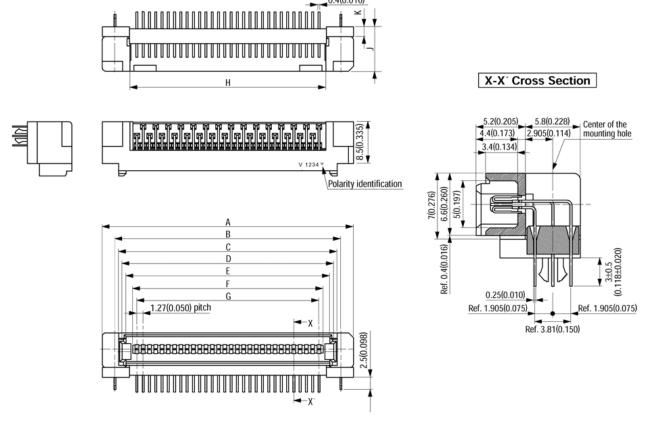
Temperature Rating: -55°C to +85°C

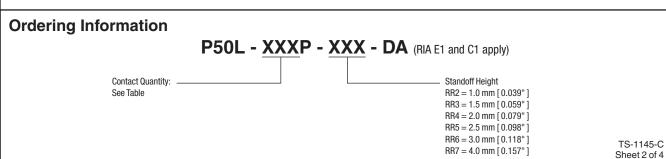
Process Rating: 260°C MSL1 (per J-STD-020C)

UL File No.: E68080

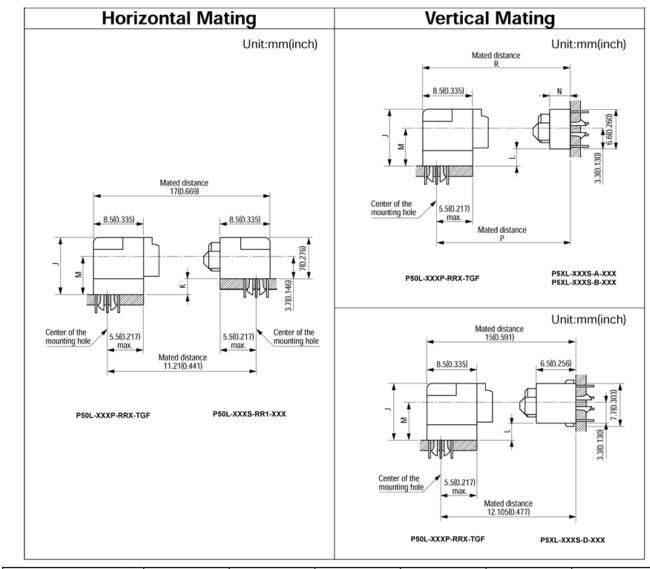
Product [*]	Table / D	imensio	ns							Connect
Contact Quantity	А	В	С	D	Е	F	G	Н		Height Code
20	25.43 [1.001]	20.32 [0.800]	18.83 [0.741]	17.43 [0.686]	15.83 [0.623]	13.13 [0.517]	11.43 [0.450]	14.23 [0.560]		RR2
30	31.78 [1.251]	26.67 [1.050]	25.18 [0.991]	23.78 [0.936]	22.18 [0.873]	19.48 [0.767]	17.78 [0.700]	20.58 [0.810]		RR3
40	38.13 [1.501]	33.02 [1.300]	31.53 [1.241]	30.13 [1.186]	28.53 [1.123]	25.83 [1.017]	24.13 [0.950]	26.93 [1.060]		RR4
50	44.48 [1.751]	39.37 [1.550]	37.88 [1.491]	36.48 [1.436]	34.88 [1.373]	32.18 [1.267]	30.48 [1.200]	33.28 [1.310]		RR5
60	50.83 [2.001]	45.72 [1.800]	44.23 [1.741]	42.83 [1.686]	41.23 [1.623]	38.53 [1.517]	36.83 [1.450]	39.63 [1.560]		RR6
80	63.53 [2.501]	58.42 [2.300]	56.93 [2.241]	55.53 [2.186]	53.93 [2.123]	51.23 [2.017]	49.53 [1.950]	52.33 [2.060]		RR7
100	76.23 [3.001]	71.12 [2.800]	69.63 [2.741]	68.23 [2.686]	66.63 [2.623]	63.93 [2.517]	62.23 [2.450]	65.03 [2.560]		
			IIIIIIII UUUUUUU	AAAAAAAA H			0.4(0.016))
SEE SEE						-	5. 4.4 3.			

Connector Height						
Height Code	J	К				
RR2	8.0 [0.315]	1.0 [0.039]				
RR3	8.5 [0.335]	1.5 [0.059]				
RR4	9.0 [0.354]	2.0 [0.079]				
RR5	9.5 [0.374]	2.5 [0.098]				
RR6	10.0 [0.394]	3.0 [0.118]				
RR7	11.0 [0.433]	4.0 [0.157]				



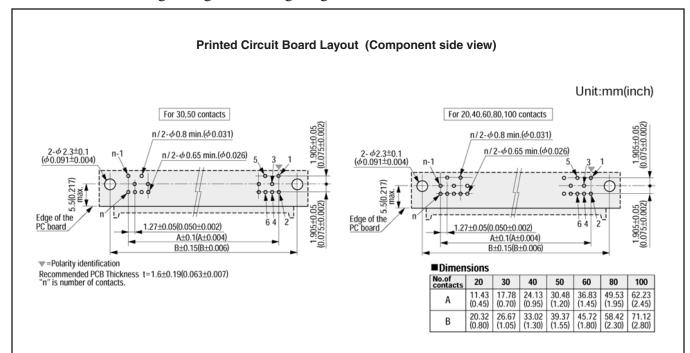


.050" Low Profile, Right Angle, Stacking Plug



Part Number		P50L-XXXP-RR2-TGF	P50L-XXXP-RR3-TGF	P50L-XXXP-RR4-TGF	P50L-XXXP-RR5-TGF	P50L-XXXP-RR6-TGF	P50L-XXXP-RR7-TGF
	J	8.0 [0.315]	8.5 [0.335]	9.0 [0.354]	9.5 [0.374]	10.0 [0.394]	11.0 [0.433]
P50L-XXXS-RR1-XXX	K	1.0 [0.039]	1.5 [0.059]	2.0 [0.079]	2.5 [0.098]	3.0 [0.118]	4.0 [0.157]
	М	4.7 [0.185]	5.2 [0.205]	5.7 [0.224]	6.2 [0.244]	6.7 [0.264]	7.7 [0.303]
	J	8.0 [0.315]	8.5 [0.335]	9.0 [0.354]	9.5 [0.374]	10.0 [0.394]	11.0 [0.433]
	L	1.4 [0.055]	1.9 [0.075]	2.4 [0.094]	2.9 [0.114]	3.4 [0.134]	4.4 [0.173]
P50L-XXXS-A-XXX	М	4.7 [0.185]	5.2 [0.205]	5.7 [0.224]	6.2 [0.244]	6.7 [0.264]	7.7 [0.303]
P51L-XXXS-A-XXX	N	3.5 [0.138]	3.5 [0.138]	3.5 [0.138]	3.5 [0.138]	3.5 [0.138]	3.5 [0.138]
	Р	9.105 [0.358]	9.105 [0.358]	9.105 [0.358]	9.105 [0.358]	9.105 [0.358]	9.105 [0.358]
	R	12.0 [0.472]	12.0 [0.472]	12.0 [0.472]	12.0 [0.472]	12.0 [0.472]	12.0 [0.472]
	J	8.0 [0.315]	8.5 [0.335]	9.0 [0.354]	9.5 [0.374]	10.0 [0.394]	11.0 [0.433]
	L	1.4 [0.055]	1.9 [0.075]	2.4 [0.094]	2.9 [0.114]	3.4 [0.134]	4.4 [0.173]
P50L-XXXS-B-XXX	M	4.7 [0.185]	5.2 [0.205]	5.7 [0.224]	6.2 [0.244]	6.7 [0.264]	7.7 [0.303]
P51L-XXXS-B-XXX	N	4.5 [0.177]	4.5 [0.177]	4.5 [0.177]	4.5 [0.177]	4.5 [0.177]	4.5 [0.177]
	Р	10.105 [0.398]	10.105 [0.398]	10.105 [0.398]	10.105 [0.398]	10.105 [0.398]	10.105 [0.398]
	R	13.0 [0.512]	13.0 [0.512]	13.0 [0.512]	13.0 [0.512]	13.0 [0.512]	13.0 [0.512]
BEOL VVVO B VVV	J	8.0 [0.315]	8.5 [0.335]	9.0 [0.354]	9.5 [0.374]	10.0 [0.394]	11.0 [0.433]
P50L-XXXS-D-XXX P51L-XXXS-D-XXX	L	1.4 [0.055]	1.9 [0.075]	2.4 [0.094]	2.9 [0.114]	3.4 [0.134]	4.4 [0.173]
TOTE ASKO B AAA	М	4.7 [0.185]	5.2 [0.205]	5.7 [0.224]	6.2 [0.244]	6.7 [0.264]	7.7 [0.303]

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