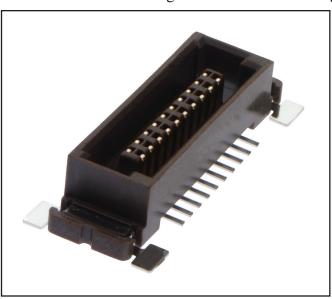
3M[™] Pak 50 Low Profile Plug

.050" Surfacemount Plug .276" and .315" Mating Heights

P50L Series



- Low profile 0.276" 0.315" (7 8 mm) addresses surfacemount board stacking applications
- High temperature insulator compatible with IR and wave soldering
- Solder brackets increase connector stability to protect contact solder joint integrity
- Polarized alignment posts insure correct mating
- 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: February 4, 2010

TS-2056-B Sheet 1 of 2

Physical

Insulator:

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Brown

Contact Material: Phosphor Bronze

Plating:

Underplating: Nickel

Wiping Area: Gold Flash

Solder Tails: Gold Flash

Retaining Clips: Tin-Copper

Mating Compatibility: TS-2055

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

3M

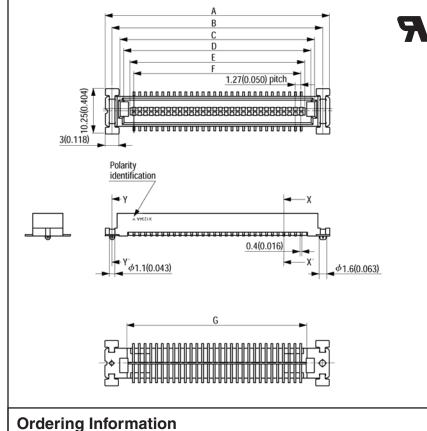
Electronic Solutions Division Interconnect Solutions
http://www.3Mconnector.com

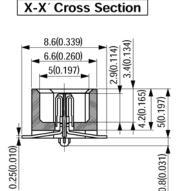
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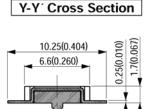
Contact Quantity	Α	В	С	D	Е	F	G
20	24.03	21.03	17.43	15.83	13.13	11.43	14.23
	[0.946]	[0.828]	[0.686]	[0.623]	[0.517]	[0.450]	[0.560
30	30.38	27.38	23.78	22.18	19.48	17.78	20.58
	[1.196]	[1.078]	[0.936]	[0.873]	[0.767]	[0.700]	[0.810
40	36.73	33.73	31.13	28.53	25.83	24.13	26.93
	[1.446]	[1.328]	[1.186]	[1.123]	[1.017]	[0.950]	[1.060
50	43.08	40.08	36.48	34.88	32.18	30.48	33.28
	[1.696]	[1.578]	[1.436]	[1.373]	[1.267]	[1.200]	[1.31
60	49.43	46.43	42.83	41.23	38.53	36.83	39.6
	[1.946]	[1.828]	[1.686]	[1.623]	[1.517]	[1.450]	[1.56
80	62.13	59.13	55.53	53.93	51.23	49.53	52.3
	[2.446]	[2.328]	[2.186]	[2.123]	[2.017]	[1.950]	[2.06
100	74.83	71.83	68.23	66.63	63.93	62.23	65.0
	[2.946]	[2.828]	[2.686]	[2.623]	[2.517]	[2.450]	[2.56
120	87.53	84.53	80.93	79.33	76.63	74.93	77.7
	[3.446]	[3.328]	[3.186]	[3.123]	[3.017]	[2.950]	[3.06

Printed Circuit Board Layout (Component Side View) B±0.1(B±0.004) F±0.1(F±0.004) *Ref. ϕ 1.4±0.05 (0.055±0.002) φ1.1±0.05 (0.043±0.002) 4±0.05 (0.157±0.002) *Ref. ϕ 1.9±0.05 (0.075±0.002) 0.8±0.05 1.27±0.05 φ1.6±0.05 (0.050±0.002)

- =Polarity identification
- 'n" is number of contacts.
- * 1.4 and 1.9 are the recommend hole sizes when using automated placement equipment. Precision of the placement equipment should be considered.







P50L - XXXP - AS - DA (RIA E1 and C1 apply) Contact Quantity:

TS-2056-B Sheet 2 of 2

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See Table

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