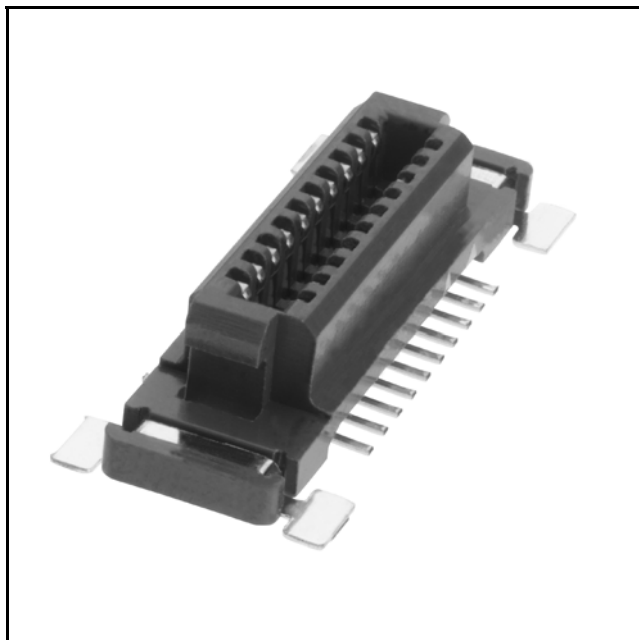


3M™ Pak 50 Socket

.050" Surfacemount Socket .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 ensure correct mating
- RoHS* compliant

Date Modified: November 11, 2006

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Sheet 1 of 2

Physical

Insulation

Material: Glass Filled PPS
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

Electrical

Current Rating: 0.5 A
Insulation Resistance: $10^3 \Omega$ at 500 V_{DC}
Withstanding Voltage: 650 V_{AC} for 1 minute

Environmental

Temperature Rating: -55°C to +85°C
Process Rating: 260°C (per J-STD-020C)

"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E68080

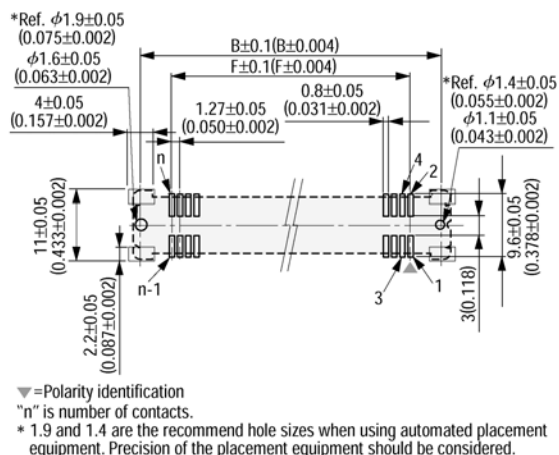
.050" Surfacemount Socket .276" and .315" Mating Heights

P50L Series

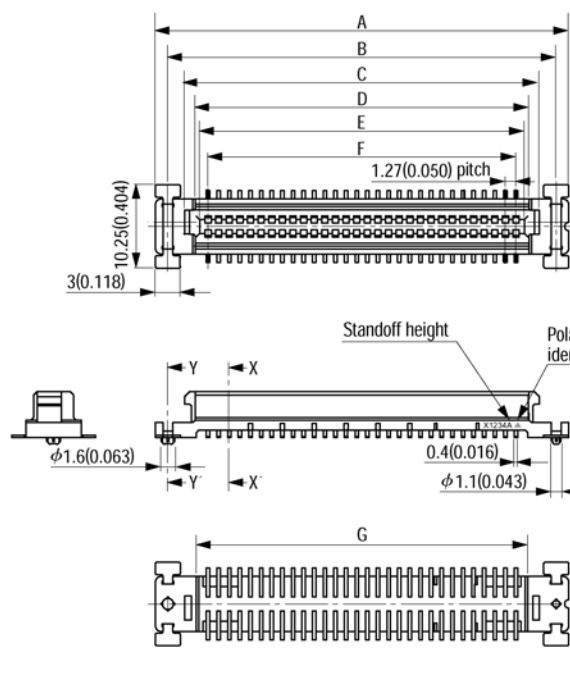
Product Table / Dimensions

Contact Quantity	A	B	C	D	E	F	G
20	24.03	21.03	17.03	14.23	13.43	11.43	14.23
	[0.946]	[0.828]	[0.670]	[0.560]	[0.529]	[0.450]	[0.560]
30	30.38	27.38	23.38	20.58	19.78	17.78	20.58
	[1.196]	[1.078]	[0.920]	[0.810]	[0.779]	[0.700]	[0.810]
40	36.73	33.73	29.73	26.93	26.13	24.13	26.93
	[1.446]	[1.328]	[1.170]	[1.060]	[1.029]	[0.950]	[1.060]
50	43.08	40.08	36.08	33.28	32.48	30.48	33.28
	[1.696]	[1.578]	[1.420]	[1.310]	[1.279]	[1.200]	[1.310]
60	49.43	46.43	42.43	39.63	38.83	36.83	39.63
	[1.946]	[1.828]	[1.670]	[1.560]	[1.529]	[1.450]	[1.560]
80	62.13	59.13	55.13	52.33	51.53	49.53	52.33
	[2.446]	[2.328]	[2.170]	[2.060]	[2.029]	[1.950]	[2.060]
100	74.83	71.83	67.83	65.03	64.23	62.23	65.03
	[2.946]	[2.828]	[2.670]	[2.560]	[2.529]	[2.450]	[2.560]
120	87.53	84.53	80.53	77.73	76.93	74.93	77.73
	[3.446]	[3.328]	[3.170]	[3.060]	[3.029]	[2.950]	[3.060]

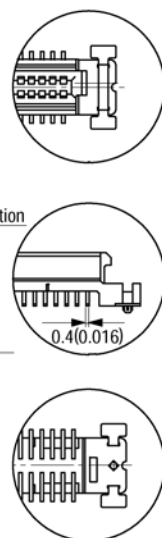
Printed Circuit Board Layout (Component Side View)



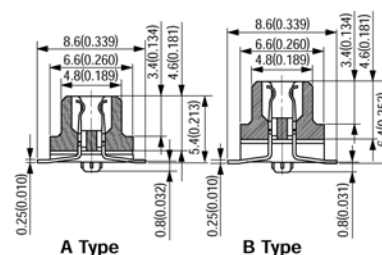
A Type (Standoff height)



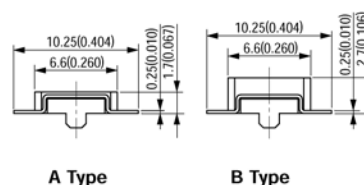
B Type



X-X' Cross Section



Y-Y' Cross Section



Ordering Information

P50L - XXXS - XX - DA

Contact Quantity
See Table

AS = SMT, Type A
BS = SMT, Type B

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Sheet 2 of 2

Important Notice

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