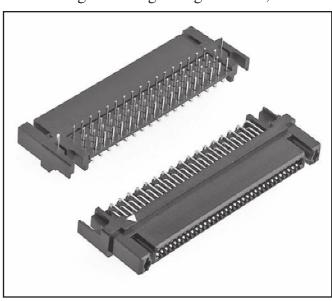
3M[™] Pak 50 Power Ground Socket

.050" Straight and Right Angle Socket, with Power Ground Pin

P50 Series



- Power/ground contacts enable separation of power and signals
- EMLB power/ground contacts control static discharge and allow "hot board" replacement
- 2 amp power/ground contact rating for high current applications maximizes signal contact utilization
- 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 18, 2010

TS-2052-C Sheet 1 of 3

Physical

Insulator:

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Black

Contact Material: Phosphor Bronze

Plating:

Underplating: Nickel

Wiping Area: 10 µ" [.25 µm] Gold

Solder Tails: Gold Flash Retainer Clips: Tin-Copper

Mating Compatibility: TS-2051

Electrical

Current Rating: 0.5 A per Signal Contact, 2 A per Power Contact

Insulation Resistance: $> 1 \times 10^9 \,\Omega$ min. at $500 \,V_{DC}$

Withstanding Voltage: 650 V_{AC} for 1 minute

Environmental

Temperature Rating: -55°C to +85°C

Process Rating: 260°C Wave Solder Compatible

UL File No.: E68080

.050" Straight and Right Angle Socket, with Power Ground Pin

P50 Series

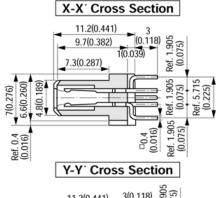
Product Table / Dimensions for Straight and Right Angle Sockets

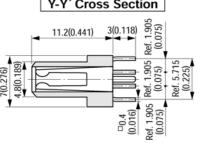
Contact Quantity	А	В	С	D
20	25.43	20.32	15.43	11.43
	[1.001]	[0.800]	[0.607]	[0.450]
26	29.24	24.13	19.24	15.24
	[1.151]	[0.950]	[0.757]	[0.600]
30	31.78	26.67	21.78	17.78
	[1.251]	[1.050]	[0.857]	[0.700]
32	33.05	27.94	23.05	19.05
	[1.301]	[1.100]	[0.907]	[0.750]
34	34.32	29.21	24.32	20.32
	[1.351]	[1.150]	[0.957]	[0.800]
40	38.13	33.02	28.13	24.13
	[1.501]	[1.300]	[1.107]	[0.950]

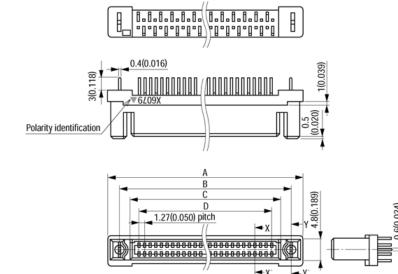
riigiit Aiigic Cockets					
Contact Quantity	А	В	С	D	
50	44.48	39.37	34.48	30.48	
	[1.751]	[1.550]	[1.357]	[1.200]	
52	45.75	40.64	35.75	31.75	
	[1.801]	[1.593]	[1.407]	[1.250]	
60	50.83	45.72	40.83	36.83	
	[2.001]	[1.800]	[1.607]	[1.450]	
68	55.91	50.80	45.91	41.91	
	[2.201]	[2.000]	[1.807]	[1.650]	
80	63.53	58.42	53.53	49.53	
	[2.501]	[2.300]	[2.107]	[1.950]	
100	76.23	71.12	66.23	62.23	
	[3.001]	[2.800]	[2.607]	[2.450]	

mm						
[Inch]						
Tolerance Unless Noted						
	0.0	0.00				
mm	± .1	± .10				
[] Dimensions used for						
Reference Only						

Straight







For 26,30,34,50 contacts

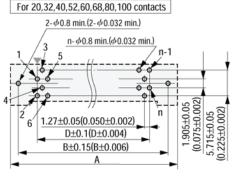
.27±0.05(0.050±0.002)

D±0.1(D±0.004)

B±0.15(B±0.006)

-φ0.8 min.(2-φ0.032 min.)

Printed Circuit Board Layout (Component Side View)

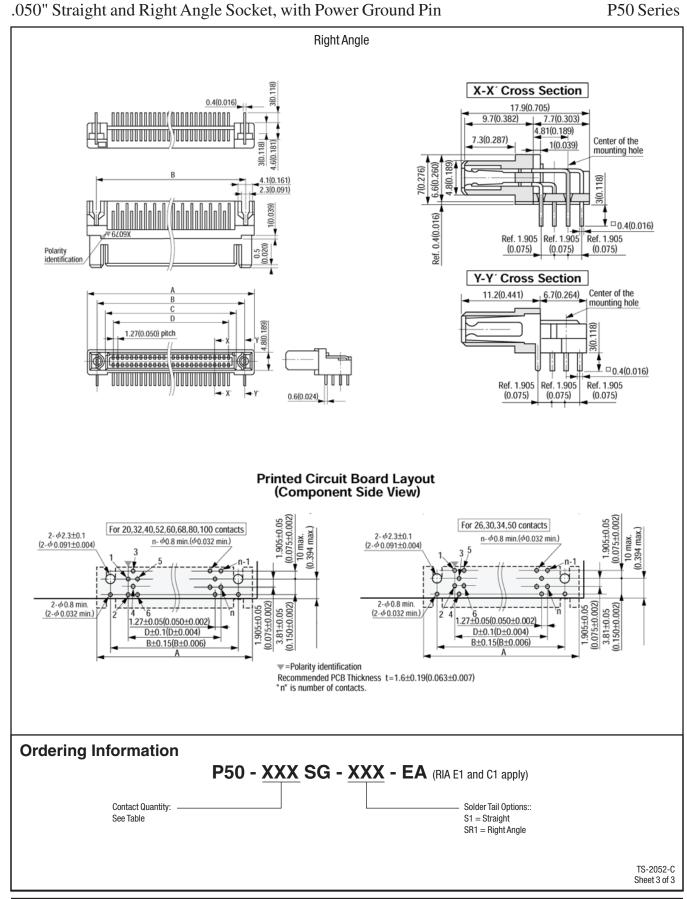


 $\sqrt{}$ =Polarity identification Recommended PCB Thickness t=1.6±0.19(0.063±0.007) "n" is number of contacts.

TS-2052-C Sheet 2 of 3

1.905±0.05 (0.075±0.002) 5.715±0.05 (0.225±0.002)

P50 Series



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