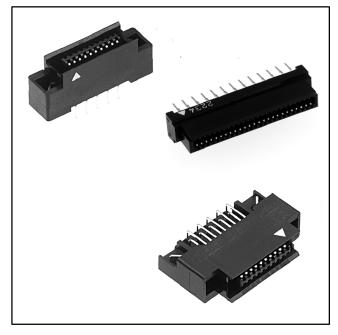
# 3M<sup>™</sup> Pak 50 Socket .050″ Straight and Right Angle Socket, with Ret. Clips, Flng. Option

**P50 Series** 



- Contact design features two contact points and straight beam construction for connector reliability and low insertion force
- Available retention clip secures connector for wave soldering eliminating additional hardware expenses
- Horizontal, parallel or vertical mating available
- Insulator design prevents mis-insertion errors and contact damage
- Available with and without flanges

Date Modified: May 15, 2003

TS-2047-01 Sheet 1 of 5

### Physical

InsulationMaterial:Glass Filled NylonFlammability:UL 94V-0Color:BlackContactMaterial:Phosphor BronzePlatingUnderplating:NickelWiping Area:See Ordering InformationSolder Tails:Tin Alloy over Nickel

### Electrical

Current Rating:0.5 AInsulation Resistance: $10^3 \text{ M}\Omega$  min. at 500V DCWithstanding Voltage650V AC for 1 minute

### Environmental

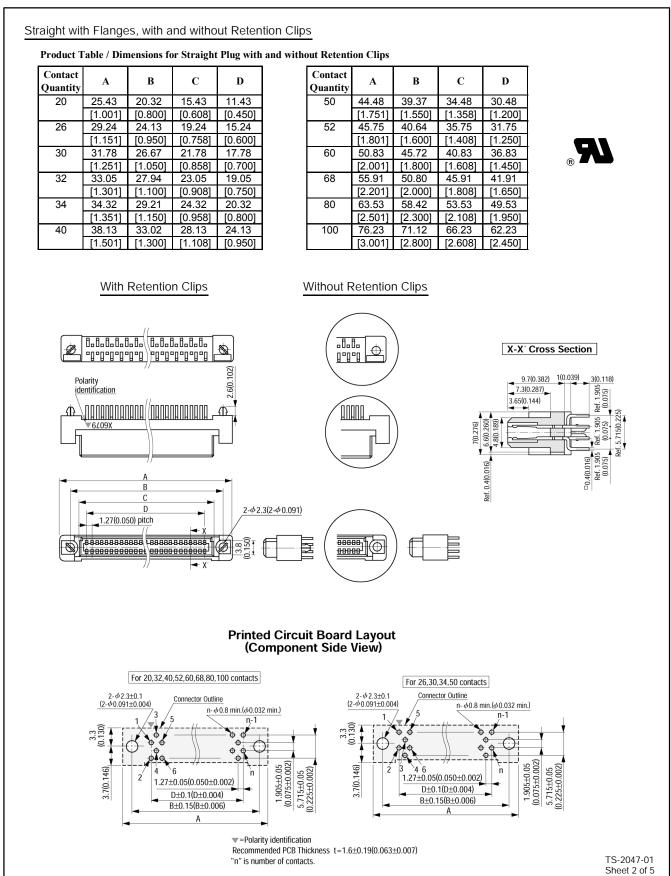
**Temperature Rating:** -55°C to +85°C

**UL File No.: E68080** 

3M Interconnect Solutions http://www.3M.com/interconnects/

# 3M<sup>™</sup> Pak 50 Socket .050″ Straight and Right Angle Socket, with Ret. Clips, Flng. Option

P50 Series



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## 3M<sup>™</sup> Pak 50 Socket .050″ Straight and Right Angle Socket, with Ret. Clips, Flng. Option

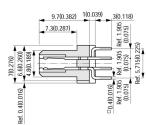
### Without Flanges

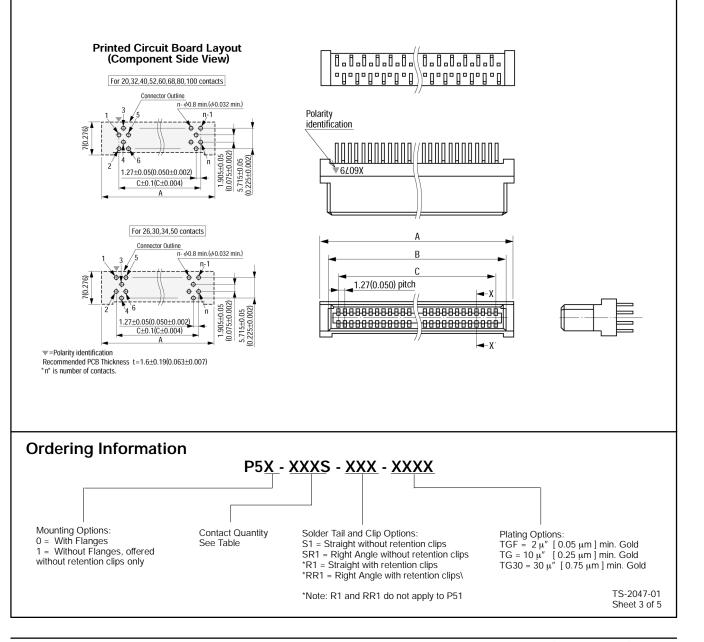
Product Table / Dimensions for Straight Plug without Flanges

Contact Quantity	А	В	С
20	17.83	15.43	11.43
	[0.702]	[0.608]	[0.450]
26	21.64	19.24	15.24
	[0.852]	[0.758]	[0.600]
30	24.18	21.78	17.78
	[0.952]	[0.858]	[0.700]
32	25.45	23.05	19.05
	[1.002]	[0.908]	[0.750]
34	26.72	24.32	20.32
	[1.052]	[0.958]	[0.800]
40	30.53	28.13	24.13
	[1.202]	[1.108]	[0.950]

Contact Quantity	А	В	С
50	36.88	34.48	30.48
	[1.452]	[1.358]	[1.200]
52	38.15	35.75	31.75
	[1.502]	[1.408]	[1.250]
60	43.23	40.83	36.83
	[1.702]	[1.608]	[1.450]
68	48.31	45.91	41.91
	[1.902]	[1.808]	[1.650]
80	55.93	53.53	49.53
	[2.202]	[2.108]	[1.950]
100	68.63	66.23	62.23
	[2.702]	[2.608]	[2.450]







**3M** Interconnect Solutions http://www.3M.com/interconnects/

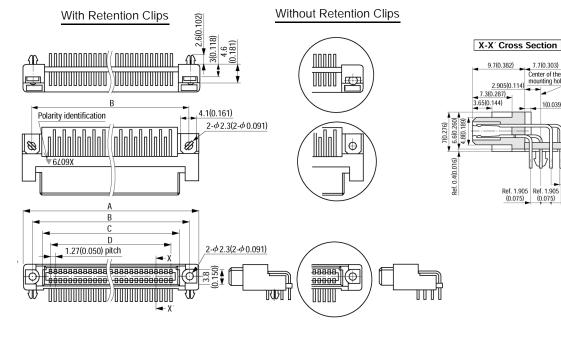
# 3M<sup>™</sup> Pak 50 Socket .050" Straight and Right Angle Socket, with Ret. Clips, Flng. Option

### **Right Angle with Flanges**

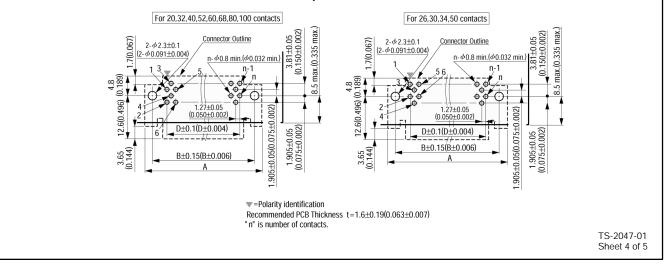
Product Table / Dimensions for Right Angle Plug with and without Retention

Contact Quantity	А	В	С	D
20	25.43	20.32	15.43	11.43
	[1.001]	[0.800]	[0.608]	[0.450]
26	29.24	24.13	19.24	15.24
	[1.151]	[0.950]	[0.758]	[0.600]
30	31.78	26.67	21.78	17.78
	[1.251]	[1.050]	[0.858]	[0.700]
32	33.05	27.94	23.05	19.05
	[1.301]	[1.100]	[0.908]	[0.750]
34	34.32	29.21	24.32	20.32
	[1.351]	[1.150]	[0.958]	[0.800]
40	38.13	33.02	28.13	24.13
	[1.501]	[1.300]	[1.108]	[0.950]

Contact Quantity	А	В	С	D
50	44.48	39.37	34.48	30.48
	[1.751]	[1.550]	[1.358]	[1.200]
52	45.75	40.64	35.75	31.75
	[1.801]	[1.600]	[1.408]	[1.250]
60	50.83	45.72	40.83	36.83
	[2.001]	[1.800]	[1.608]	[1.450]
68	55.91	50.80	45.91	41.91
	[2.201]	[2.000]	[1.808]	[1.650]
80	63.53	58.42	53.53	49.53
	[2.501]	[2.300]	[2.108]	[1.950]
100	76.23	71.12	66.23	62.23
	[3.001]	[2.800]	[2.608]	[2.450]



#### **Printed Circuit Board Layout** (Component Side View)



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7.7(0.303)

Center of the mounting hole

Ref. 1.905 (0.075) Ref. 1.905 (0.075)

1(0.039

Ref. 1.905 (0.075)

9.7(0.382)

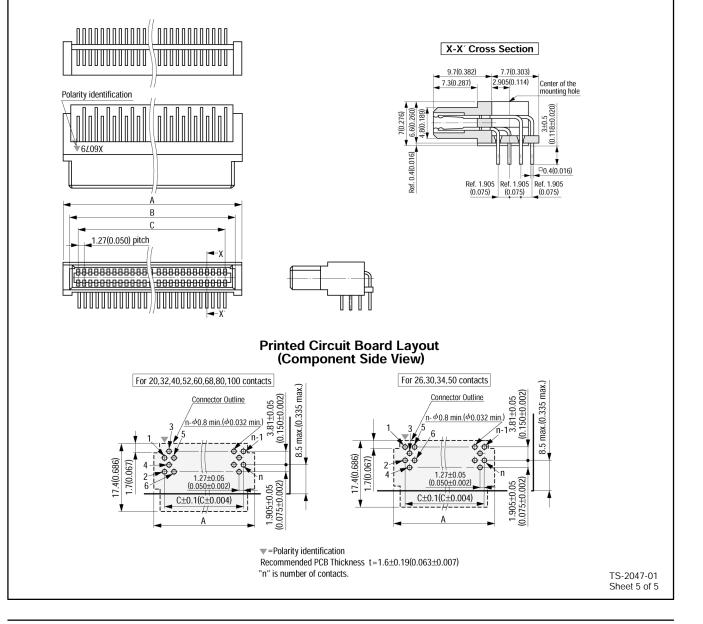
2.905(0.114) 7.3(0.287)

**Right Angle without Flanges** 

Product Table / Dimensions for Right Angle Plug without Flanges

Contact Quantity	А	В	С
20	17.83	15.43	11.43
	[0.702]	[0.608]	[0.450]
26	21.64	19.24	15.24
	[0.852]	[0.758]	[0.600]
30	24.18	21.78	17.78
	[0.952]	[0.858]	[0.700]
32	25.45	23.05	19.05
	[1.002]	[0.908]	[0.750]
34	26.72	24.32	20.32
	[1.052]	[0.958]	[0.800]
40	30.53	28.13	24.13
	[1.202]	[1.108]	[0.950]

Contact Quantity	А	В	С
50	36.88	34.48	30.48
	[1.452]	[1.358]	[1.200]
52	38.15	35.75	31.75
	[1.502]	[1.408]	[1.250]
60	43.23	40.83	36.83
	[1.702]	[1.608]	[1.450]
68	48.31	45.91	41.91
	[1.902]	[1.808]	[1.650]
80	55.93	53.53	49.53
	[2.202]	[2.108]	[1.950]
100	68.63	66.23	62.23
	[2.702]	[2.608]	[2.450]



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6801 River Place Blvd. Austin, TX 78726-9000 www.3M.com/eisd

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