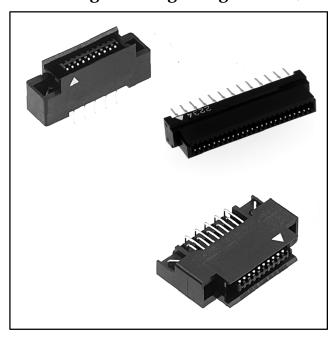
3M™ Pak 50 Socket

.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

TS-2047-01 Sheet 1 of 5

Date Modified: May 15, 2003

Physical

Insulation

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Black

Contact

Material: Phosphor Bronze

Plating

Underplating: Nickel

Wiping Area: See Ordering Information Solder Tails: Tin Alloy over Nickel

Electrical

Current Rating: 0.5 A

Insulation Resistance: $10^3 \text{ M}\Omega$ min. at 500V DC **Withstanding Voltage** 650V AC for 1 minute

Environmental

Temperature Rating: -55°C to +85°C

UL File No.: E68080

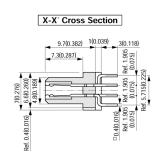
.050" Straight and Right Angle Socket, with Ret. Clips, Flng. Option

Without Flanges

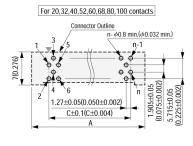
Product Table / Dimensions for Straight Plug without Flanges

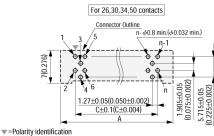
Contact Quantity	A	В	C
20	17.83	15.43	11.43
	[0.702]	[0.608]	[0.450]
26	21.64	19.24	15.24
	[0.852]	[0.758]	[0.600]
30	24.18	21.78	17.78
	[0.952]	[0.858]	[0.700]
32	25.45	23.05	19.05
	[1.002]	[0.908]	[0.750]
34	26.72	24.32	20.32
	[1.052]	[0.958]	[0.800]
40	30.53	28.13	24.13
	[1.202]	[1.108]	[0.950]

Contact Quantity	A	В	C
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]



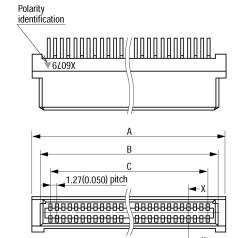
Printed Circuit Board Layout (Component Side View)





Recommended PCB Thickness $t=1.6\pm0.19(0.063\pm0.007)$ "n" is number of contacts.







Ordering Information

Mounting Options: 0 = With Flanges 1 = Without Flanges, offered without retention clips only

Contact Quantity See Table

Solder Tail and Clip Options: S1 = Straight without retention clips SR1 = Right Angle without retention clips

P5X - XXXS - XXX - XXXX

*R1 = Straight with retention clips *RR1 = Right Angle with retention clips\

*Note: R1 and RR1 do not apply to P51

Plating Options: TGF = $2 \mu'' [0.05 \mu m] min$. Gold TG = $10 \mu'' [0.25 \mu m] min$. Gold $TG30 = 30 \,\mu'' \,$ [$0.75 \,\mu m$] min. Gold

> TS-2047-01 Sheet 3 of 5