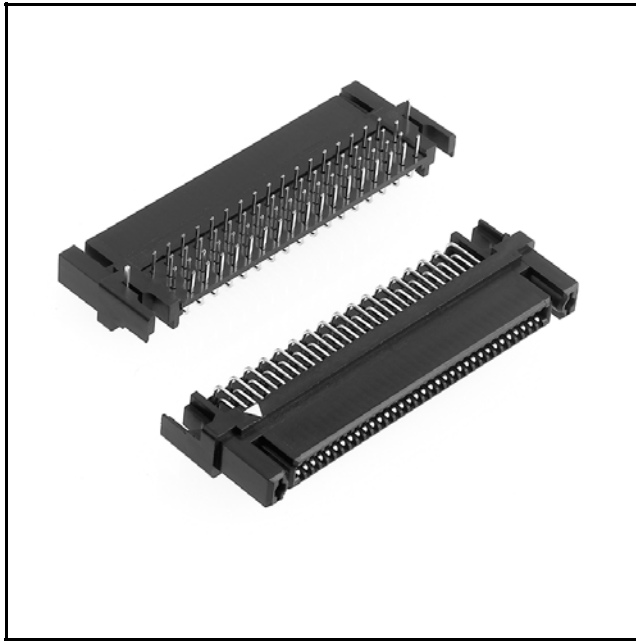


3M™ Pak 50 Power Ground Socket

.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* version (EA plating suffix) available

Date Modified: February 24, 2006

TS-2052-02
Sheet 1 of 3

Physical

Insulation

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Black

Contact

Material: Phosphor Bronze

Plating:

Underplating Nickel

Wiping Area: 10 μ " [.25 μ m] Gold

Solder Tails: Tin Alloy over Nickel or gold flash (RoHS compliant) (See ordering information)

Retainer Clips: Tin-lead or Tin-copper (RoHS compliant)

Electrical

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

Insulation Resistance: 10³ M Ω min. at 500V DC

Withstanding Voltage: 650V AC for 1 minute

Environmental

Temperature Rating: -55°C to +85°C

Process Rating: 260°C (per J-STD-020C)

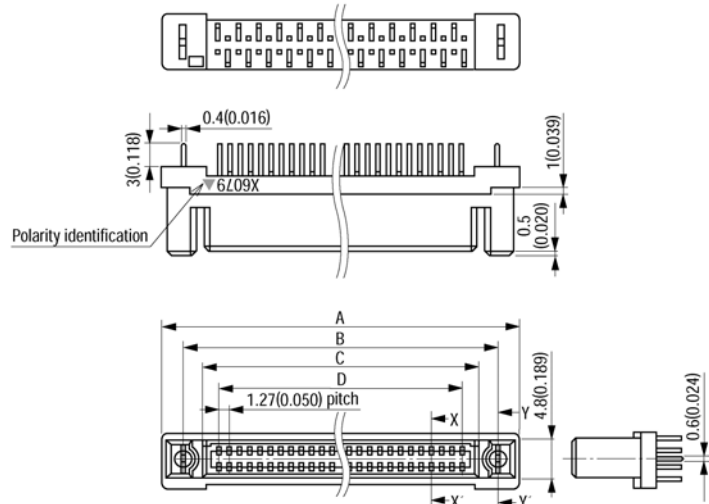
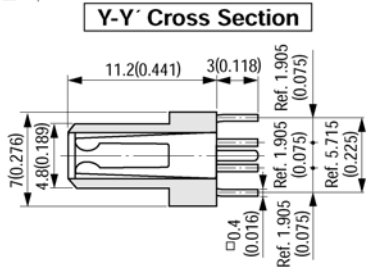
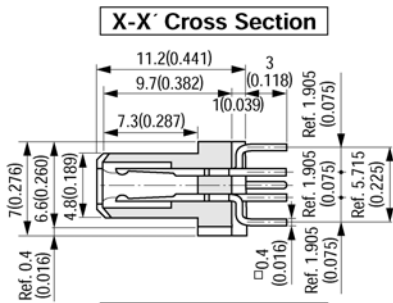
*"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent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

3M™ Pak 50 Power Ground Socket

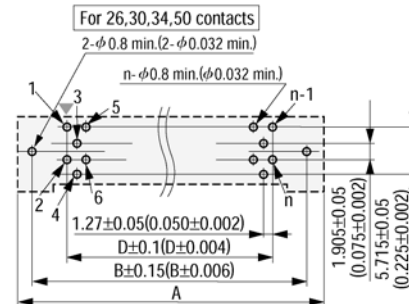
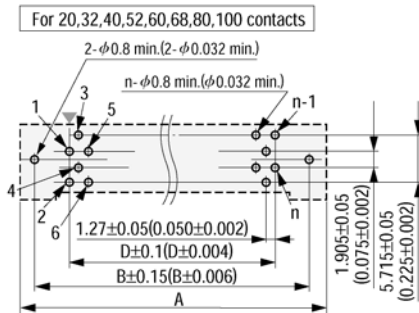
.050" Straight and Right Angle Socket, with Power Ground Pin

P50 Series

Straight



Printed Circuit Board Layout (Component Side View)



▼ = Polarity identification
 Recommended PCB Thickness $t = 1.6 \pm 0.19 (0.063 \pm 0.007)$
 * "n" is number of contacts.

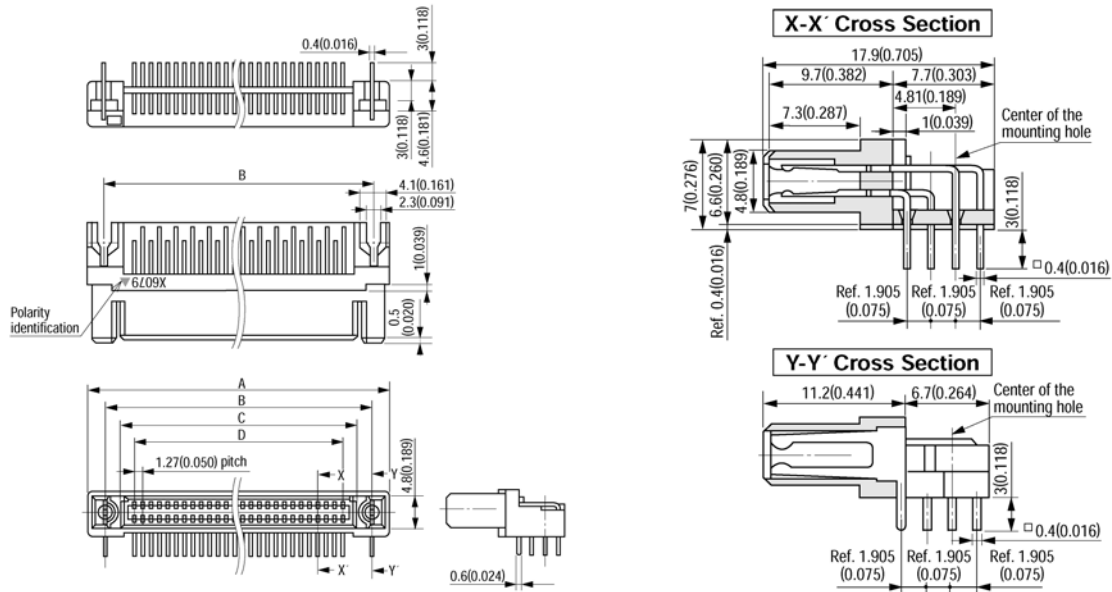
TS-2052-02
 Sheet 2 of 3

3M™ Pak 50 Power Ground Socket

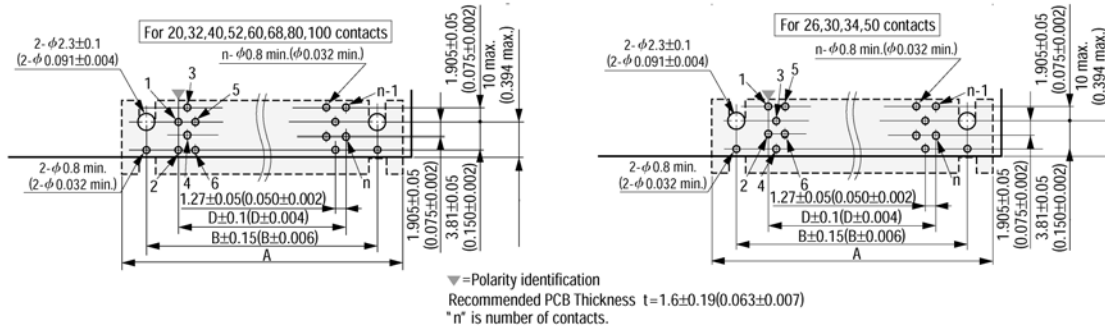
.050" Straight and Right Angle Socket, with Power Ground Pin

P50 Series

Right Angle



Printed Circuit Board Layout (Component Side View)



Ordering Information

P50 - XXX SG - XXX - XXX

Contact Quantity
(See Table)

Solder Tail Options:
 S1 = Straight
 SR1 = Right Angle

Plating Options:
 TG = 10u" [.25um] gold with tin-lead solder tails
 EA = 10u" [.25um] with gold flash solder tails
 (RoHS compliant)

TS-2052-02
 Sheet 3 of 3

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