3M[™] Pak 10 Media Plug

1 mm Right Angle, Surfacemount, With Pwr. Gnd. Option

PK10M Series



- 1 mm pitch connector system
- Four mating heights available
- Available power contacts rated at 5A
- Available frame ground connection through surfacemount retention clips
- Keyed design helps prevent mating misalignment
- RoHS compliant* version (DA plating suffix) available

Date Modified: January 8, 2007

TS-1151-04 Sheet 1 of 5

Physical

Insulation

Material: Glass-Filled LCP

Flammability: UL 94V-0

Color: Black

Contact

Signal Contact: Copper Alloy Power Contact: Copper Alloy Retention Clips: Copper Alloy

Contact Plating

Underplating: 120μ " [3.0μ m] Nickel Wiping Area: 4μ " [0.10μ m] min. Gold

Solder Tails: Tin Alloy or Gold Flash (RoHS compliant) **Retention Clip Plating:** Tin Copper over 120μ " [3.0μ m] Nickel

Marking: Orientation Triangle, Standoff Height Code, Lot Number

Electrical

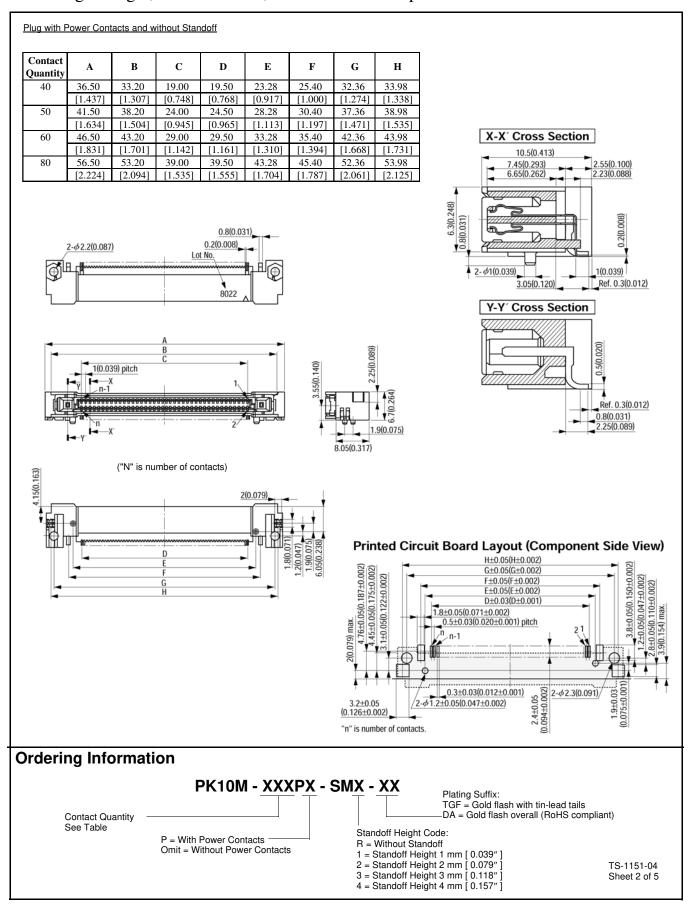
Current Rating: 0.5 A per Signal Contact, 5 A Power Contact

Insulation Resistance: $1 \times 10^3 \text{ M}\Omega \text{ min at } 250 \text{ V}_{DC}$ **Withstanding Voltage:** 300 V_{AC} for 1 minute

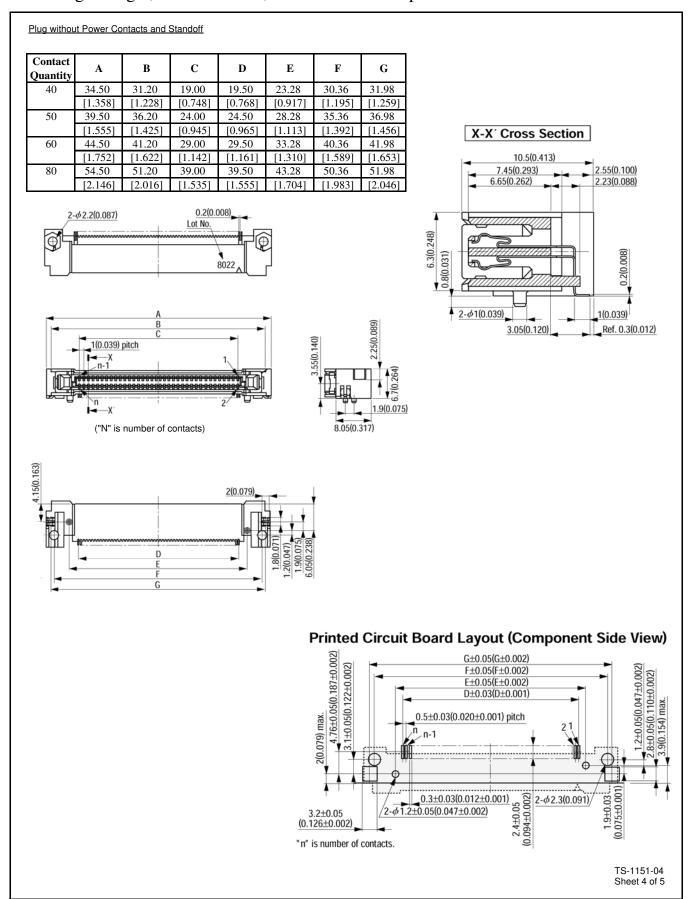
Environmental

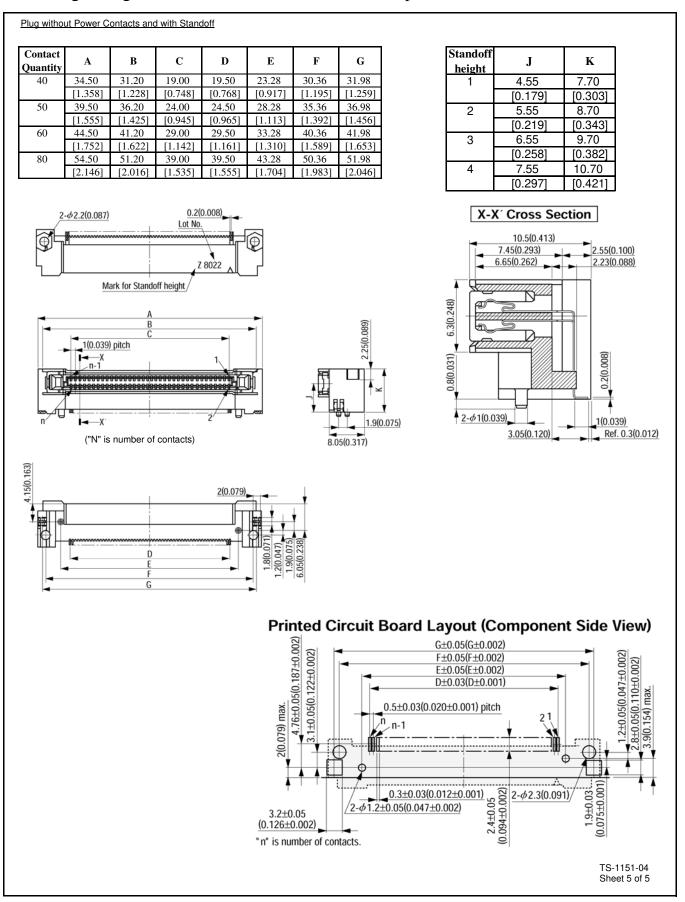
Temperature Rating: -55°C to +85°C **Process Rating:** Maximum 260°C

"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.



Plug with Power Contacts and Standoff											
Contact	A	В	C	D	Е	F	G	Н	Standoff	J	К
Quantity 40	36.50	33.20	19.00	19.50	23.28	25.40	32.36	33.98	height 1	4.55	7.70
50	[1.437]	[1.307]	[0.748]	[0.768]	[0.917]	[1.000]	[1.274]	[1.338]		[0.179]	[0.303]
50	41.50 [1.634]	38.20 [1.504]	24.00 [0.945]	24.50 [0.965]	28.28 [1.113]	30.40	37.36	38.98 [1.535]	2	5.55 [0.219]	8.70 [0.343]
60	46.50	43.20	29.00	29.50	33.28	35.40	42.36	43.98	3	6.55	9.70
80	[1.831] 56.50	[1.701] 53.20	[1.142] 39.00	[1.161] 39.50	[1.310]	[1.394] 45.40	[1.668] 52.36	[1.731] 53.98	4	[0.258] 7.55	[0.382] 10.70
	[2.224]	[2.094]	[1.535]	[1.555]	[1.704]	[1.787]	[2.061]	[2.125]	4	[0.297]	[0.421]
0.8(0.031) 0.2(0.008) Mark for Standoff height A B Carrier of Contacts) ("N" is number of contacts) Printed Circuit Board Layout (Component Side View)											
	H+0.05(H+0.002)										
H±0.05(H±0.002) G±0.05(G±0.002) F±0.05(G±0.002) D±0.03(D±0.001) 1.8±0.05(0.071±0.002) D±0.03(D±0.001) 1.8±0.05(0.071±0.002) D±0.03(0.002±0.001) D											
											TS-1151-04 Sheet 3 of 5





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