3M[™] Pak 50 Low Profile Plug

.050" Plug, (1.27) Straight, Right Angle and SMT, Low Profile

P50LE Series



- Latch/eject mechanism maintains a secure connection
- Low profile 11.8 mm mated height when using the surfacemount version
- Mates to the P25LE wiremount socket
- 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: July 13, 2011

TS-1148-C Sheet 1 of 4

Physical

Insulator:

Material:Glass Filled PPSFlammability:UL 94V-0Color:BrownContact Material:Phosphor BronzePlating:Underplating:Underplating:NickelWiping Area:Gold FlashSolder Tails:Gold FlashRetaining Clips:Tin-CopperMating Compatibility:TS-1142

Electrical

Current Rating: 0.5 A

Insulation Resistance: $> 1 \times 10^9 \Omega$ at 250 V_{DC}

Withstanding Voltage: $300 V_{AC}$ for 1 minute

Environmental

Temperature Rating: -55°C to +85°C Process Rating: 260°C MSL1 (per J-STD-020C)

UL File No.: E68080

3M Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com

3M[™] Pak 50 Low Profile Plug

.050" Plug, (1.27) Straight, Right Angle and SMT, Low Profile





ЗМ

Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com 3M is a trademark of 3M Company. For technical, sales or ordering information call 800-225-5373

$3M^{TM}$ Pak 50 Low Profile Plug

.050" Plug, (1.27) Straight, Right Angle and SMT, Low Profile



Product Table / Dimensions for Straight and Right Angle Thru-hole Plug									
Contact Quantity	A	В	С	D	E	F	G	Н	J
20	25.43	23.03	21.23	17.43	15.83	13.13	11.43	14.23	20.32
	[1.001]	[0.906]	[0.836]	[0.686]	[0.623]	[0.517]	[0.450]	[0.560]	[0.800]
30	31.78	29.38	27.58	23.78	22.18	19.48	17.78	20.58	26.67
	[1.251]	[1.157]	[1.086]	[0.936]	[0.873]	[0.767]	[0.700]	[0.810]	[1.050]
40	38.13	35.73	33.93	30.13	28.53	25.83	24.13	26.93	33.02
	[1.501]	[1.407]	[1.336]	[1.186]	[1.123]	[1.017]	[0.950]	[1.060]	[1.300]
50	44.48	42.08	40.28	36.48	34.88	32.18	30.48	33.28	39.37
	[1.751]	[1.657]	[1.586]	[1.436]	[1.373]	[1.267]	[1.200]	[1.310]	[1.550]
60	50.83	48.43	46.63	42.83	41.23	38.53	36.83	39.63	45.72
	[2.001]	[1.907]	[1.836]	[1.686]	[1.623]	[1.517]	[1.450]	[1.560]	[1.800]
68	55.91	53.51	51.71	47.91	46.31	43.61	41.91	44.71	50.80
	[2.201]	[2.107]	[2.036]	[1.886]	[1.823]	[1.717]	[1.650]	[1.760]	[2.000]
80	63.53	61.13	59.33	55.53	53.93	51.23	49.53	52.33	58.42
	[2.501]	[2.407]	[2.336]	[2.186]	[2.123]	[2.017]	[1.950]	[2.060]	[2.300]
100	76.23	73.83	72.03	68.23	66.63	63.93	62.23	65.03	71.12
	[3.001]	[2.907]	[2.836]	[2.686]	[2.623]	[2.517]	[2.450]	[2.560]	[2.800]

Right Angle Plug (Through Hole Solder Tails)





X-X⁻ Cross Section

Printed Circuit Board Layout (Component Side View)



3M Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com

3M is a trademark of 3M Company. For technical, sales or ordering information call 800-225-5373

3M[™] Pak 50 Low Profile Plug

.050" Plug, (1.27) Straight, Right Angle and SMT, Low Profile

Product Table / Dimensions for SMT Plug С Е F В D G Н J 21.23 17.43 15.83 13.13 11.43 14.23 16.51 [0.836] [0.686] [0.623] [0.517] [0.450] [0.560] [0.650]



Straight Plug (SMT)

X-X[°] Cross Section

Contact

Quantity

A







n-



TS-1148-C Sheet 4 of 4

3M

Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com

=Polarity identification

"n" is number of contacts.

3M is a trademark of 3M Company. For technical, sales or ordering information call 800-225-5373



Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.



3M Electronics Solutions Division 6801 River Place Blvd. Austin, TX 78726-9000 U.S.A. 1-800-225-5373 www.3Mconnector.com

Please recycle. Printed in USA. © 3M 2010. All rights reserved. RIA-2217B-E