3M[™] DIN R-Form Plug

Vertical, Solder Tail or Press-Fit Termination

DIN 41612 Series

- Early mate late break (EMLB) grounding contacts for hot swapping Select load capability
- Expanded pin counts
- Optional press-fit or solder tail termination
- Mates with C-form and R-form sockets
- Optional retention clip
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3M.com/Interconnects for compliance information (RIAE1 & C1 apply)

Date Modified: February 2, 2010

TS-2307-E Sheet 1 of 3

Physical

Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

Contact:

Material: Copper Alloy

Plating:

Underplating: 50 µ" Min.Nickel

Wiping Area: See Ordering Information Termination: See Ordering Information

Electrical

Current Rating: 3.0A at 30°C T-rise above Ambient

Contact Resistance: $\leq 20 \text{ m}\Omega$

Insulation Resistance: $\geq 1,000 \,\mathrm{M}\Omega, 100 \,\mathrm{V}_{\mathrm{DC}}$ Withstanding Voltage: 1,000 V_{AC} for 1 minute

Environmental

Temperature Rating: -55°C to 125°C

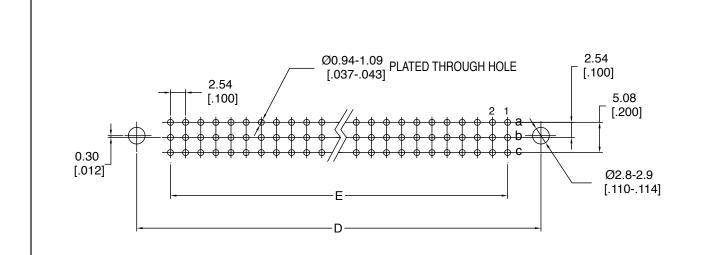
Process Temperature Rating: Maximum Insulator Temperature 191°C (solder wave process only)

UL File No.: E68080



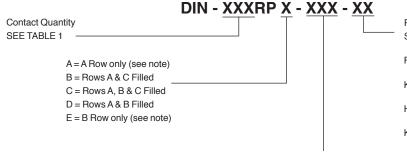
Table 1 Contact В D Ε **Part Number** Quantity DIN-016RPA-XXX-XXXX 16 54.40 [2.142] 44.60 [1.756] 50.00 [1.969] 38.10 [1.500] 32 DIN-032RPB-XXX-XXXX 54.40 [2.142] 44.60 [1.756] 50.00 [1.969] 38.10 [1.500] 48 DIN-048RPC-XXX-XXXX 54.40 [2.142] 44.60 [1.756] 50.00 [1.969] 38.10 [1.500] 44.60 [1.756] 32 DIN-032RPD-XXX-XXXX 54.40 [2.142] 50.00 [1.969] 38.10 [1.500] 16 DIN-016RPE-XXX-XXXX 54.40 [2.142] 44.60 [1.756] 50.00 [1.969] 38.10 [1.500] 32 DIN-032RPA-XXX-XXXX 95.00 [3.740] 85.20 [3.354] 90.00 [3.543] 78.74 [3.100] 64 DIN-064RPB-XXX-XXXX 95.00 [3.740] 85.20 [3.354] 90.00 [3.543] 78.74 [3.100] 96 DIN-096RPC-XXX-XXXX 95.00 [3.740] 85.20 [3.354] 90.00 [3.543] 78.74 [3.100] 64 DIN-064RPD-XXX-XXXX 95.00 [3.740] 85.20 [3.354] 90.00 [3.543] 78.74 [3.100] 32 DIN-032RPE-XXX-XXXX 95.00 [3.740] 85.20 [3.354] 90.00 [3.543] 78.74 [3.100] 40 DIN-040RPA-XXX-XXXX 115.40 [4.543] 105.52 [4.154] 99.06 [3.900] 110.32 [4.343] 80 DIN-080RPB-XXX-XXXX 115.40 [4.543] 105.52 [4.154] 110.32 [4.343] 99.06 [3.900] 120 DIN-120RPC-XXX-XXXX 115.40 [4.543] 105.52 [4.154] 99.06 [3.900] 110.32 [4.343] 80 DIN-080RPD-XXX-XXXX 115.40 [4.543] 105.52 [4.154] 110.32 [4.343] 99.06 [3.900] DIN-040RPE-XXX-XXXX 105.52 [4.154] 115.40 [4.543] 110.32 [4.343] 99.06 [3.900] 4.90 ± 0.10 [.193] [.100] 5.08 PRESS-FIT TAILS SOLDER TAILS -POSITION A1 -POSITION B1 -POSITION C1 5.08 [.200] 0.30 [.012] 2-02 80 mm [inch] Tolerance Unless Noted XX. ± 0.50 ± 0.25 ± 0.15 [] Dimension for Reference Only 3.80 (.150)TS-2307-E R1 with Retention Clip Sheet 2 of 3

Vertical, Solder Tail or Press-Fit Termination



RECOMMENDED PCB LAYOUT





Plating Options:

SH = 1 - 3 μ " Gold on Contact 120 - 200 μ " Matte Tin on Terminal

FJ = 10 - 20 μ " Gold on Contact 120 - 200 μ " Matte Tin on Terminal

KR = 30 - 40 μ " Gold on Contact 120 - 200 μ " Matte Tin on Terminal

HM = 3 μ " Gold on Contact, 7 μ " Min. PdNi 120 - 200 μ " Matte Tin on Terminal

 $KV = 30 \mu$ " Gold on contact area, 1 - 3 μ " Gold on Board Termination

Termination Options: SEE TABLE 2

TABLE 2		
SOLDER TERMINATION OPTION NO.	DIM "C" mm (in)	Comment
R1	3.75 (.148)	with retention
S1	3.75 (.148)	no retention
W	14.70 (.579)	no retention
PRESS-FIT TERMINATION OPTION NO.		
DPS	5.00 (.197)	
DPW1	13.25 (.522)	

Note: A and E options are currently not covered in UL File No. E68080.

PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR CUSTOMER SPECIFIC PRODUCT CONFIGURATIONS.

TS-2307-E Sheet 3 of 3

[•] This diagram serves only for Part Number descriptive definitions.

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