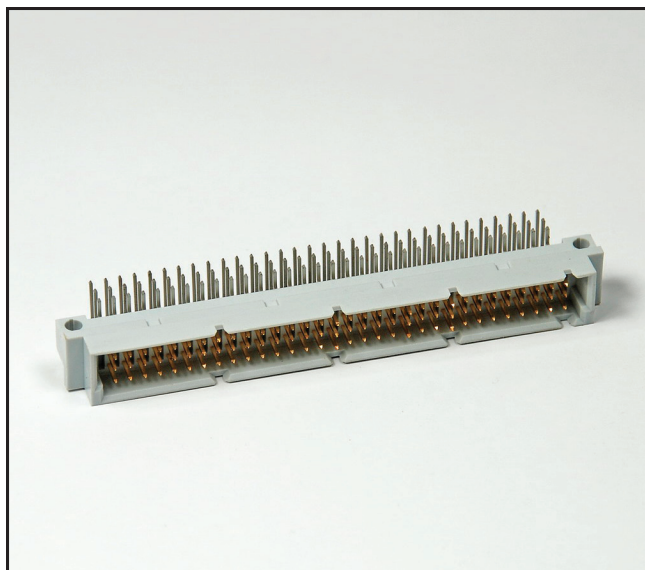


3M™ DIN C Form Plug

Right Angle, Solder Tail Termination

DIN 41612 Series



- Multi-pin count socket compatible with VME, VXI and Multibus II daughter cards
- Early mate late break (EMLB) grounding contacts for hot swapping
- Expanded pin counts
- Optional retention clips
- Mates with C-form and R-form sockets
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3M.com/Interconnects for compliance information (RIA E1 & C1 apply)

Date Modified: February 2, 2010

TS-2305-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: ≤ 20 m Ω
Insulation Resistance: $\geq 1,000$ M Ω , 100V_{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



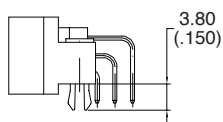
3M™ DIN C Form Plug

Right Angle, Solder Tail Termination

DIN 41612 Series

Table 1

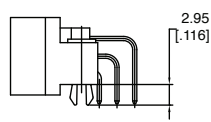
Contact Quantity	Part Number	A	B	C	D
16	DIN-016CPA-XXX-XXXX	54.40 [2.142]	44.56 [1.754]	38.10 [1.500]	48.26 [1.900]
32	DIN-032CPB-XXX-XXXX	54.40 [2.142]	44.56 [1.754]	38.10 [1.500]	48.26 [1.900]
48	DIN-048CPC-XXX-XXXX	54.40 [2.142]	44.56 [1.754]	38.10 [1.500]	48.26 [1.900]
32	DIN-032CPD-XXX-XXXX	54.40 [2.142]	44.56 [1.754]	38.10 [1.500]	48.26 [1.900]
16	DIN-016CPE-XXX-XXXX	54.40 [2.142]	44.56 [1.754]	38.10 [1.500]	48.26 [1.900]
32	DIN-032CPA-XXX-XXXX	94.00 [3.701]	85.20 [3.354]	78.74 [3.100]	88.90 [3.500]
64	DIN-064CPB-XXX-XXXX	94.00 [3.701]	85.20 [3.354]	78.74 [3.100]	88.90 [3.500]
96	DIN-096CPC-XXX-XXXX	94.00 [3.701]	85.20 [3.354]	78.74 [3.100]	88.90 [3.500]
64	DIN-064CPD-XXX-XXXX	94.00 [3.701]	85.20 [3.354]	78.74 [3.100]	88.90 [3.500]
32	DIN-032CPE-XXX-XXXX	94.00 [3.701]	85.20 [3.354]	78.74 [3.100]	88.90 [3.500]



RR1
WITH "A" RETENTION CLIP
for .062 and .093 PCB thickness



SR1
WITHOUT RETENTION CLIP



RR1L
WITH "B" RETENTION CLIPS
for .062 PCB thickness

Tolerance Unless Noted			
	X.	.X	.XX
mm	± 0.50	± 0.25	± 0.15

[] Dimension for Reference Only

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Sheet 2 of 3

Right Angle, Solder Tail Termination

Technical drawing of a plated through hole (PTH) showing dimensions and tolerances. The drawing includes a cross-section view on the left and a top view on the right. The cross-section view shows a hole with a diameter of $\varnothing 0.94-1.09$ [0.037-.043] and a wall thickness of 2.54 [0.100]. The top view shows a rectangular plate with a width of 5.30 [0.209] and a length of 5.08 [0.200]. The hole is located 2.54 [0.100] from the left edge and 2.54 [0.100] from the top edge. The hole is labeled with 'a', 'b', and 'c' at the bottom, and '1' and '2' at the top. The hole is labeled 'PTH' (Plated Through Hole) in the center. The drawing also shows a break symbol in the middle of the hole, indicating that the hole is longer than shown. The dimensions are given in inches and millimeters.

Ordering Information

Contact Quantity
SEE TABLE

A = A Row only (see note)
B = Rows A & C Filled
C = Rows A, B & C Filled
D = Rows A & B Filled
E = B Row only (see note)

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

Termination Options:

Solder Tail Termination

$$SR1 = 2.75 [.108]$$

RR1L = 2.75 [.108] with 'B' retention clips

RR1 = 2.75 (.108) with "A" retention clips

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

- This diagram serves only for Part Number descriptive definitions.

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

TS-2305-E
Sheet 3 of 3

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[FJ](#) [DIN-016CPA-SR1-HM](#) [DIN-016CPA-SR1-KR](#) [DIN-016CPA-SR1-SH](#) [DIN-016CPE-RR1L-FJ](#) [DIN-016CPE-RR1L-](#)
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[RR1-FJ](#) [DIN-032CPB-RR1-HM](#) [DIN-032CPB-RR1-KR](#) [DIN-032CPB-RR1L-FJ](#) [DIN-032CPB-RR1L-HM](#) [DIN-032CPB-](#)
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