

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

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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



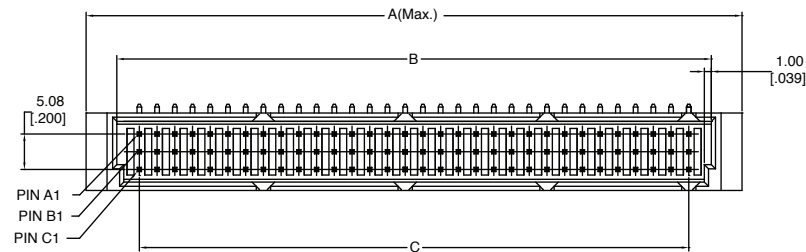
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Table 1

| 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

mm
[inch]

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

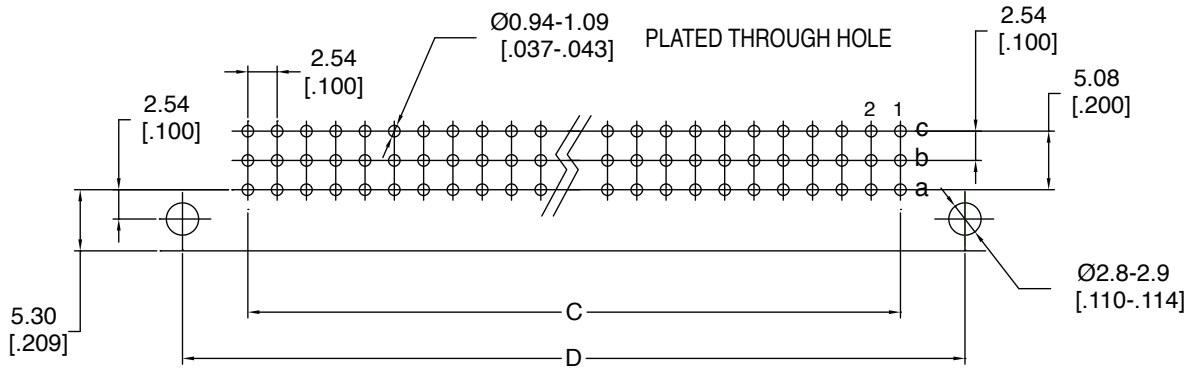
[] Dimension for Reference Only

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RECOMMENDED PCB LAYOUT

Ordering Information

DIN - XXXCP X - XXX - XX

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.

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