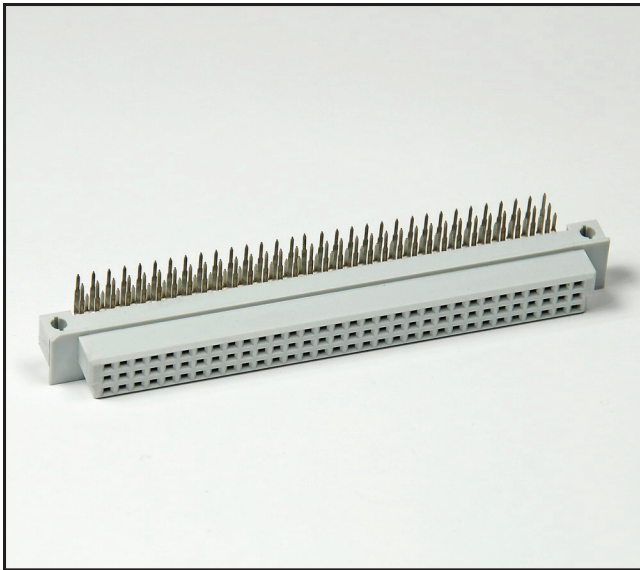


3M™ DIN R-Form Socket

Right Angle, Solder Tail Termination

DIN 41612 Series



- Inverse boardmount connector
- Select load capability
- Expanded pin counts
- Optional retention clips
- Mates with C-form and R-form plugs
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: October 29, 2012

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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



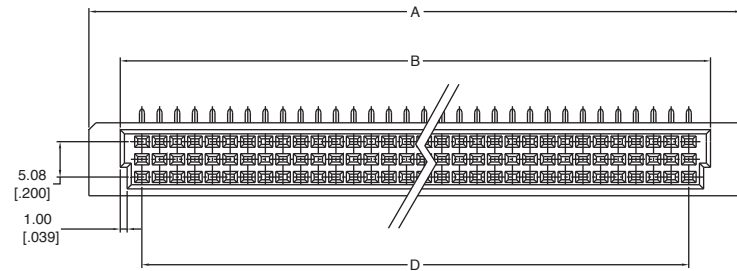
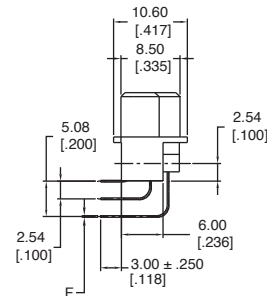
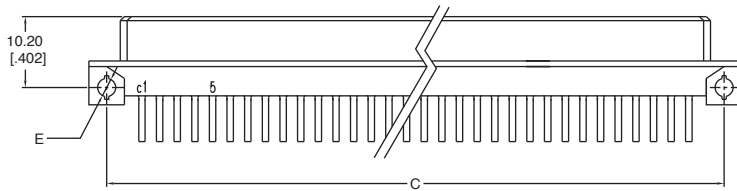
3M™ DIN R-Form Socket

Right Angle, Solder Tail Termination

DIN 41612 Series

Table 1

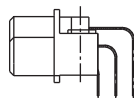
Contact Quantity	Part Number	A	B	C	D	E	F
16	DIN-016RSA-XXX-XXXX	53.40[2.102]	44.40[1.748]	48.26[1.900]	38.10[1.500]	Ø2.60[Ø.102]	0.25[.010]
32	DIN-032RSB-XXX-XXXX	53.40[2.102]	44.40[1.748]	48.26[1.900]	38.10[1.500]	Ø2.60[Ø.102]	0.25[.010]
48	DIN-048RSC-XXX-XXXX	53.40[2.102]	44.40[1.748]	48.26[1.900]	38.10[1.500]	Ø2.60[Ø.102]	0.25[.010]
32	DIN-032RSD-XXX-XXXX	53.40[2.102]	44.40[1.748]	48.26[1.900]	38.10[1.500]	Ø2.60[Ø.102]	0.25[.010]
16	DIN-016RSE-XXX-XXXX	53.40[2.102]	44.40[1.748]	48.26[1.900]	38.10[1.500]	Ø2.60[Ø.102]	0.25[.010]
32	DIN-032RSA-XXX-XXXX	94.00[3.701]	85.00[3.346]	88.90[3.500]	78.74[3.100]	Ø2.60[Ø.102]	0.25[.010]
64	DIN-064RSB-XXX-XXXX	94.00[3.701]	85.00[3.346]	88.90[3.500]	78.74[3.100]	Ø2.60[Ø.102]	0.25[.010]
96	DIN-096RSC-XXX-XXXX	94.00[3.701]	85.00[3.346]	88.90[3.500]	78.74[3.100]	Ø2.60[Ø.102]	0.25[.010]
64	DIN-064RSD-XXX-XXXX	94.00[3.701]	85.00[3.346]	88.90[3.500]	78.74[3.100]	Ø2.60[Ø.102]	0.25[.010]
32	DIN-032RSE-XXX-XXXX	94.00[3.701]	85.00[3.346]	88.90[3.500]	78.74[3.100]	Ø2.60[Ø.102]	0.25[.010]
40	DIN-040RSA-XXX-XXXX	114.32[4.501]	105.32[4.146]	109.22[4.300]	99.06[3.900]	Ø2.80[Ø.110]	0.60[.024]
80	DIN-080RSB-XXX-XXXX	114.32[4.501]	105.32[4.146]	109.22[4.300]	99.06[3.900]	Ø2.80[Ø.110]	0.60[.024]
120	DIN-120RSC-XXX-XXXX	114.32[4.501]	105.32[4.146]	109.22[4.300]	99.06[3.900]	Ø2.80[Ø.110]	0.60[.024]
80	DIN-080RSD-XXX-XXXX	114.32[4.501]	105.32[4.146]	109.22[4.300]	99.06[3.900]	Ø2.80[Ø.110]	0.60[.024]
40	DIN-040RSE-XXX-XXXX	114.32[4.501]	105.32[4.146]	109.22[4.300]	99.06[3.900]	Ø2.80[Ø.110]	0.60[.024]



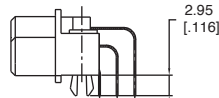
mm
[inch]

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

[] Dimension for Reference Only



SR1
WITHOUT RETENTION CLIP



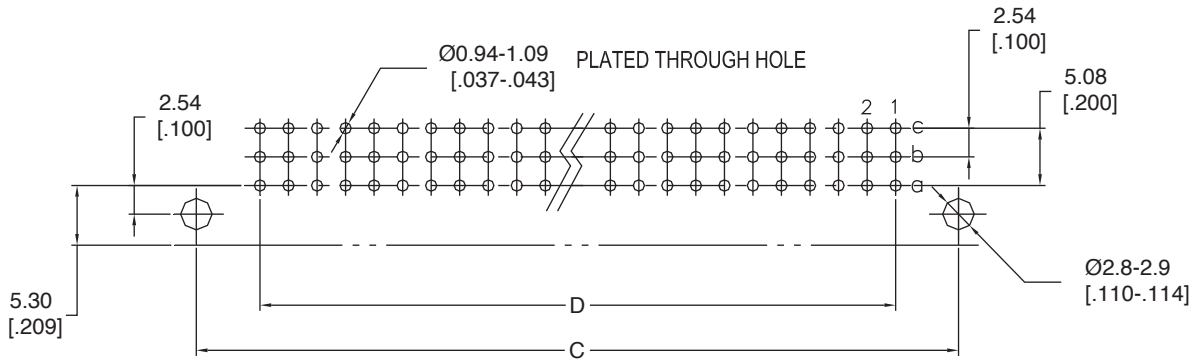
RR1L
WITH "B" RETENTION CLIPS
for .062 PCB thickness

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3M™ DIN R-Form Socket

Right Angle, Solder Tail Termination

DIN 41612 Series



RECOMMENDED PCB LAYOUT

Ordering Information

DIN - XXXRS X - XXX - XX

Contact Quantity
SEE TABLE 1

- 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:

- SR1 = 3.00 [.118]
- RR1L = 3.00 [.118] with 'B' 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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Sheet 3 of 3



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[DIN-096RSC-SR1-HM](#) [DIN-096RSC-RR1L-HM](#) [DIN-096RSC-RR1L-KR](#) [DIN-016RSA-RR1L-FJ](#) [DIN-016RSA-RR1L-](#)
[HM](#) [DIN-016RSA-RR1L-KR](#) [DIN-016RSA-RR1L-SH](#) [DIN-016RSA-SR1-FJ](#) [DIN-016RSA-SR1-HM](#) [DIN-016RSA-SR1-](#)
[KR](#) [DIN-016RSA-SR1-SH](#) [DIN-016RSE-RR1L-FJ](#) [DIN-016RSE-RR1L-HM](#) [DIN-016RSE-RR1L-KR](#) [DIN-016RSE-](#)
[RR1L-SH](#) [DIN-016RSE-SR1-FJ](#) [DIN-016RSE-SR1-HM](#) [DIN-016RSE-SR1-KR](#) [DIN-016RSE-SR1-SH](#) [DIN-032RSA-](#)
[RR1L-FJ](#) [DIN-032RSA-RR1L-HM](#) [DIN-032RSA-RR1L-KR](#) [DIN-032RSA-RR1L-SH](#) [DIN-032RSA-SR1-FJ](#) [DIN-](#)
[032RSA-SR1-HM](#) [DIN-032RSA-SR1-KR](#) [DIN-032RSA-SR1-SH](#) [DIN-032RSB-RR1L-FJ](#) [DIN-032RSB-RR1L-HM](#) [DIN-](#)
[032RSB-RR1L-KR](#) [DIN-032RSB-RR1L-SH](#) [DIN-032RSB-SR1-FJ](#) [DIN-032RSB-SR1-HM](#) [DIN-032RSB-SR1-KR](#) [DIN-](#)
[032RSB-SR1-SH](#) [DIN-032RSD-RR1L-FJ](#) [DIN-032RSD-RR1L-HM](#) [DIN-032RSD-RR1L-KR](#) [DIN-032RSD-RR1L-SH](#)
[DIN-032RSD-SR1-FJ](#) [DIN-032RSD-SR1-HM](#) [DIN-032RSD-SR1-KR](#) [DIN-032RSD-SR1-SH](#) [DIN-032RSE-RR1L-FJ](#)
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[KR](#) [DIN-064RSD-RR1L-SH](#) [DIN-064RSD-SR1-FJ](#) [DIN-064RSD-SR1-HM](#) [DIN-064RSD-SR1-KR](#) [DIN-064RSD-SR1-](#)
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[SR1-FJ](#) [DIN-080RSB-SR1-HM](#)