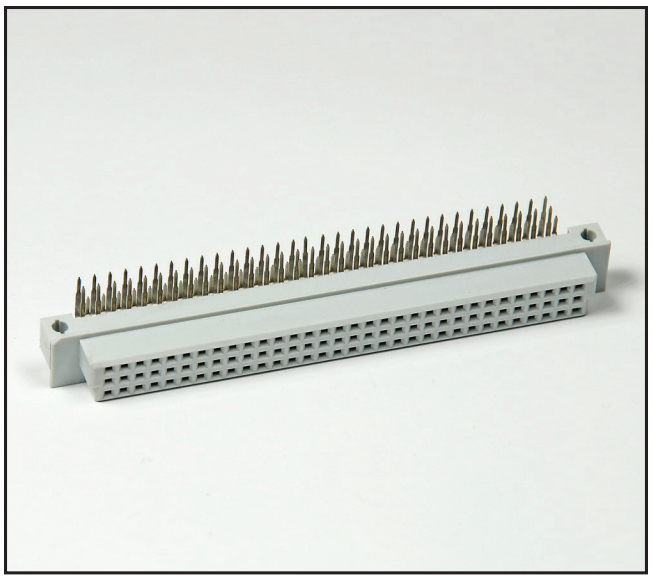
3M™ DIN R-Form Socket

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

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 mΩ
Insulation Resistance:	≥1,000 MΩ,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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800-225-5373

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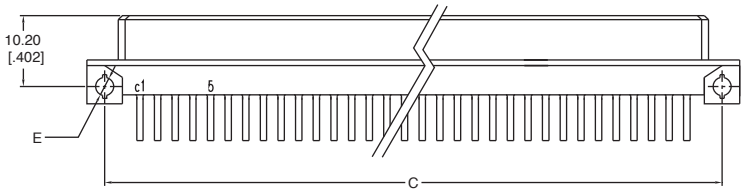
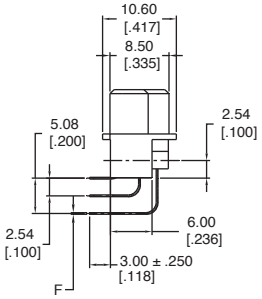
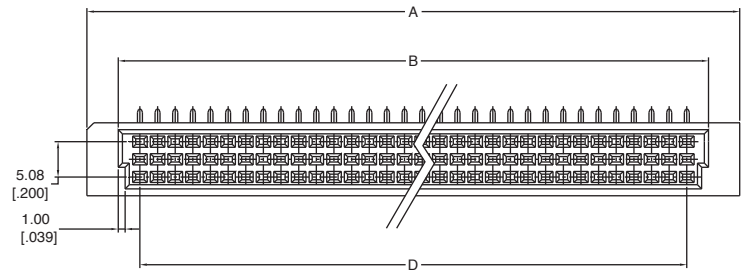
Table 1

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]



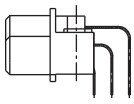




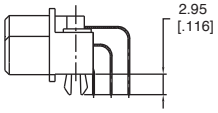
mm
[inch]

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

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

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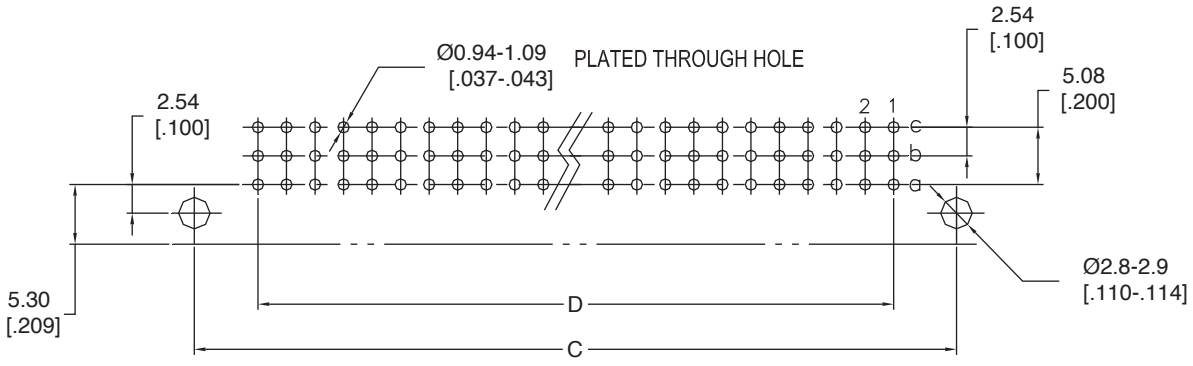

RECOMMENDED PCB LAYOUT

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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Interconnect Solutions
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