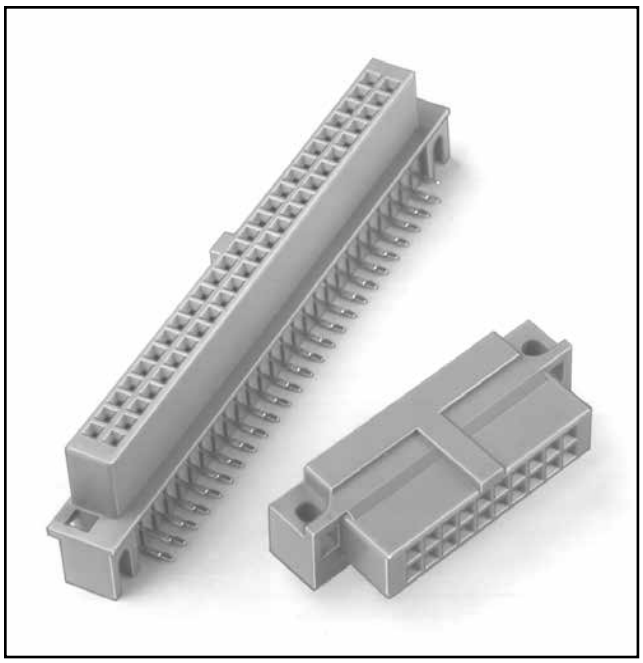
3M™ Polarized Boardmount Socket

.100" × .100" Centerbump Polarization with Right Angle Solder Tails 5100 Series



- Centerbump polarization
- Mates with standard low profile shrouded headers
- Part number on each piece
- Optional keying plug
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS Compliance" section of www.3Mconnectors.com for compliance information (RIA E1 and C1 apply).

Date Modified: October 14, 2013

Physical

Insulation:	
Material:	Glass Filled Polyester (PBT)
Flammability:	UL 94V-0
Color:	Gray
Contact:	
Material:	Copper Alloy
Plating:	
Underplating:	2 µm [79 µ"] Nickel
Wiping Area:	0.3 µm [12 µ"] Gold
Solder Tails:	Gold Flash
Marking:	3M Logo, Part Identification Number and Orientation Triangle

Electrical

Current Rating:	1 A
Insulation Resistance:	$> 1 \times 10^9 \Omega$ at 500 V_{DC}
Withstanding Voltage:	1,000 V_{RMS} at Sea Level

Environmental

Temperature Rating:	-55°C to +105°C
Process Rating:	Maximum insulator temperature 191°C (Solder Wave Process Only)

UL File No.: E68080

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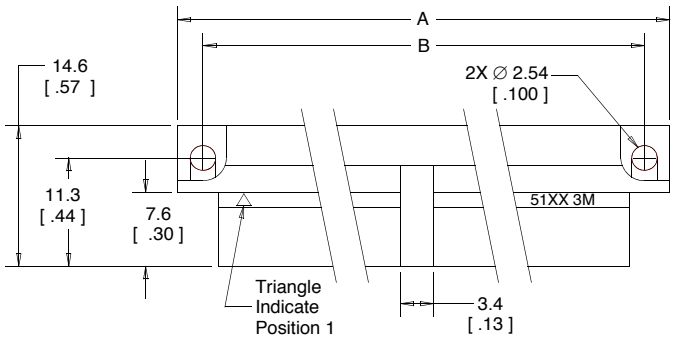
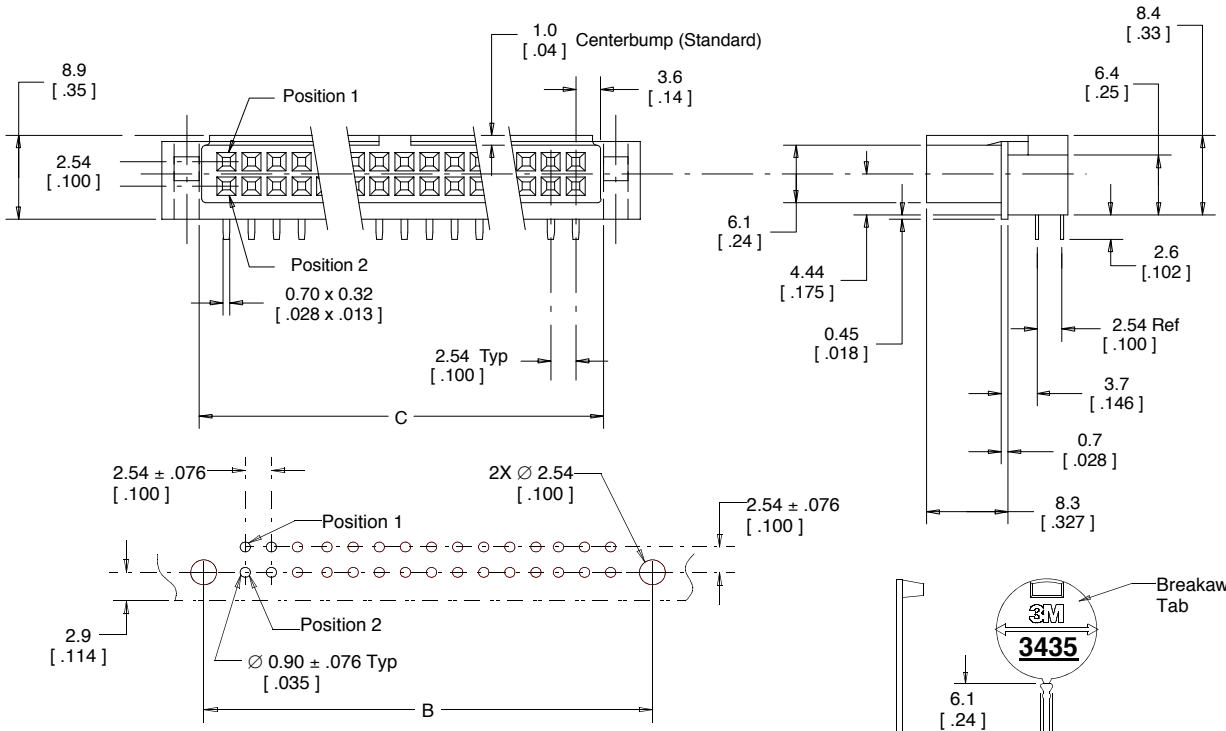
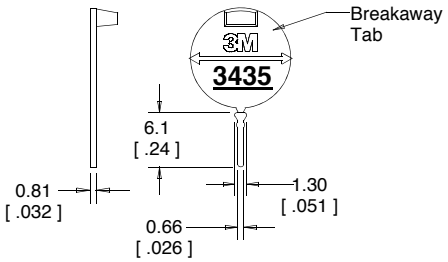


Contact Quantity	Dimensions		
	A	B	C
10	25.4 [1.00]	20.3 [0.80]	17.3 [0.68]
20	38.1 [1.50]	33.0 [1.30]	30.0 [1.18]
26	45.7 [1.80]	40.6 [1.60]	37.6 [1.48]
30	50.8 [2.00]	45.7 [1.80]	42.7 [1.68]
34	55.9 [2.20]	50.8 [2.00]	47.7 [1.88]
40	63.5 [2.50]	58.4 [2.30]	55.4 [2.18]
50	76.2 [3.00]	71.1 [2.80]	68.1 [2.68]
60	88.9 [3.50]	83.8 [3.30]	80.8 [3.18]
64	93.9 [3.70]	88.9 [3.50]	85.8 [3.38]



Recommended Mounting Hole Pattern
(Shown for top side of PC board)



3435-0
Keying Plug
(Optional: Order Separately)

mm
(Inch)

Tolerance Unless Noted			
	.0	.00	.000
mm	± .3	± .15	

[ ] Dimensions for Reference only

Note:

1. Recommended to be mated to the 2.54 [.100] × 2.54 [.100] low profile header and the 4600 series plug connector. note the ejector latches cannot be used with the 4600 series

Ordering Information

Sockets

51XX-B7A2PL RIA (E1 & C1 Apply)

Contact Quantity:
See Table

TS-0414-D
Sheet 2 of 2

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

3M is a trademark of 3M Company.

For technical, sales or ordering information call
800-225-5373

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