



*RoHS COMPLIANT
& **HALOGEN FREE

Features

- 8 A current rating per contact
- 4 mm pitch and height
- Precious metal contacts
- RoHS compliant* - see [processing information](#) on RoHS compliant surface mount components
- High cycle life - 50K cycles
- Halogen free**

Applications

- Handheld communications - mobile phones, pagers, cordless phones, GPS, PICs, radios
- Portable consumer equipment - PDAs, HPCs, notebook PCs, cameras, dictaphones, PICs, games

Sustainability

- Small size reduces material use
- Eco-logistics-friendly packaging
- Corrosion-resistant for longevity
- ISO 14001, low-impact energy
- Responsibly sourced and produced

Product Overview

Bourns' next generation of Modular Contacts represents a major advancement in interconnect technology for power-demanding applications. Engineered to address the growing need for compact yet robust power delivery solutions, this new connector offers higher level current carrying capability. Bourns® High Power Modular Contact Interconnect products retain the modularity and flexibility that standard modular contacts have, including stackable

configurations, multiple pitch options, and versatile mating orientations to accommodate a wide range of design requirements — specifications that engineers value and require. Whether utilized in board-to-board, board-to-device, or docking applications, the new high power platform ensures low contact resistance, minimal heat rise, and an extended life cycle of 50,000 cycles.

Materials & Finishes

Insulator.....Glass reinforced thermoplastic, UL 94V-0 rated, black
 Contact.....Copper alloy
 Finish
 Underplating.....30 μ" min. Ni
 Contact Area.....30 μ" min. Au over Ni
 Termination.....Tin alloy (meets MIL-STD-202, method 208)

Operating Characteristics

Electrical
 Current RatingDC 8 A/contact
 Voltage Rating30 VDC
 Contact Resistance.....25 mohms max.
 Dielectric Voltage500 VAC
 Insulating Resistance500 Mohms min.
 Operating Temperature-55 °C to 125 °C

Mechanical
 Vibration10-55 Hz, 0.06 inches D.A.
 Shock.....50 G, 11 ms
 Normal Force.....100 grams min. at a working height of 0.51 mm (0.020 in.)

Durability50,000 cycles min.
 Contact Resistance after 50,000 Cycles50 mΩ
 MSL.....1
 ESD Rating (HBM).....3B
 Storage Condition40 °C max. / 70 % R.H. max.

How to Order

78AD J - 4 - M L 0 G

Model _____

Terminal Style _____
 J = SMT
 H = Through-hole

Number of Contacts (N)
 2 through 6

Gender _____
 M = Male

Height _____
 L = Low Profile

Options _____
 0 = Standard
 1 = Locator Pins (J Style Only)

Packaging (MSL-1) _____
 __ = Tube: 120/N pcs. or 120 contacts per tube
 G = Embossed Tape: 500 pcs. per reel (J/SMT Style Only)

Contact Information

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* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.

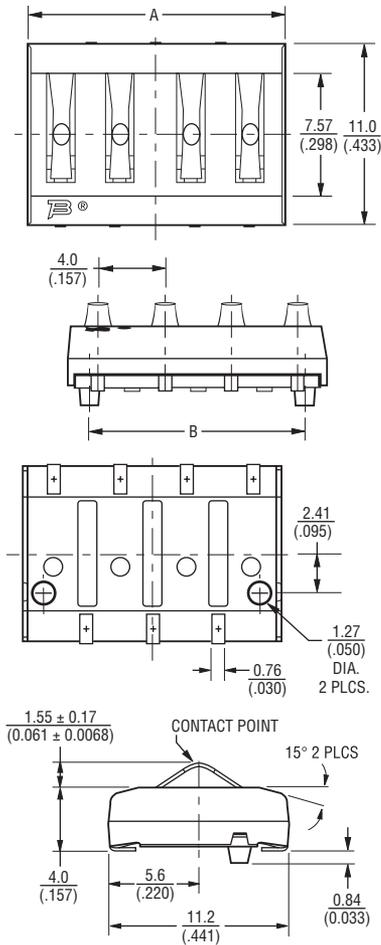
Users should verify actual device performance in their specific applications.

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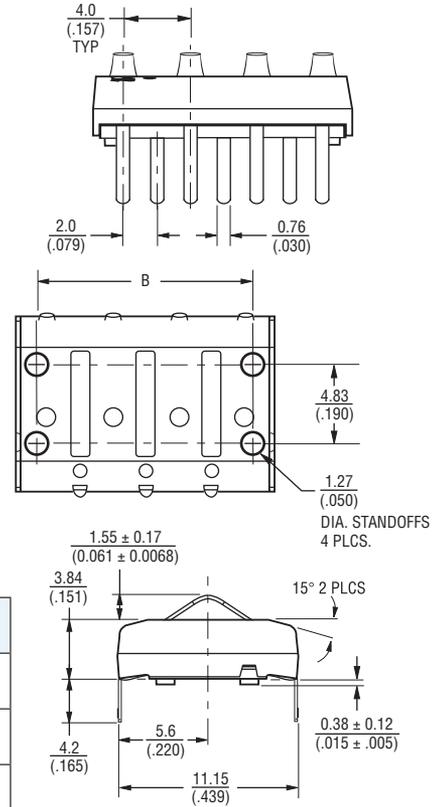


Product Dimensions

78ADJ



78ADH

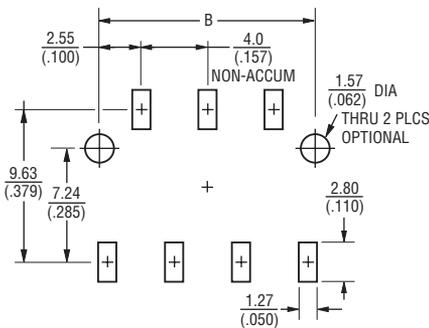


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

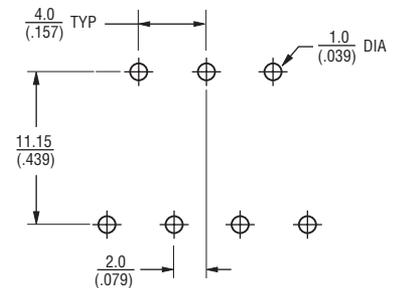
TOLERANCES: $\pm \frac{0.3}{(.012)}$ EXCEPT WHERE NOTED

Number of Contacts	Dimension A	Dimension B
2	$\frac{7.82}{(.308)}$	$\frac{5.11}{(.201)}$
3	$\frac{11.82}{(.466)}$	$\frac{9.11}{(.359)}$
4	$\frac{15.82}{(.623)}$	$\frac{13.11}{(.516)}$
5	$\frac{19.82}{(.781)}$	$\frac{17.11}{(.674)}$
6	$\frac{23.83}{(.938)}$	$\frac{21.11}{(.831)}$

78ADJ Recommended PWB Layout



78ADH Recommended PWB Layout



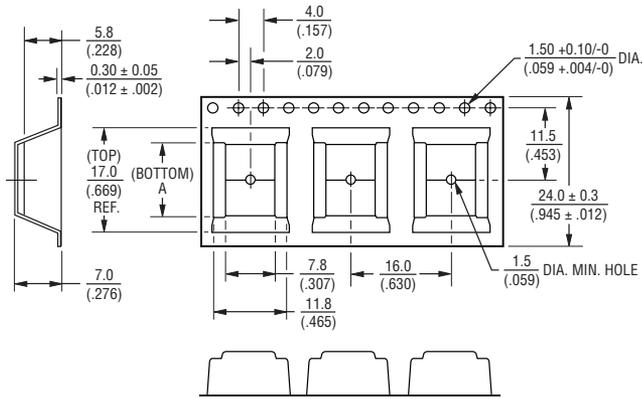
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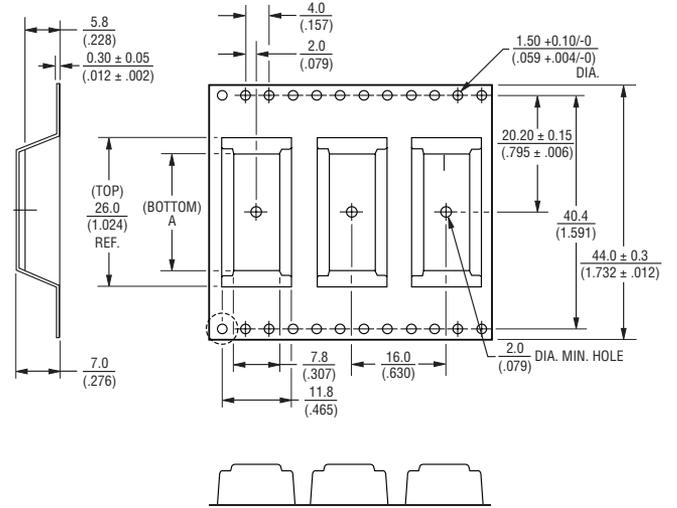


Packaging Specifications

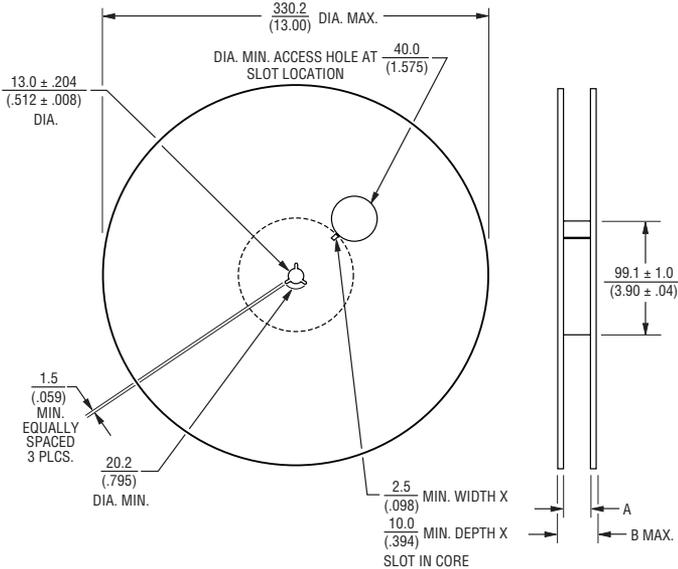
(J/SMT STYLE ONLY)



No. of Contacts	Dimension A
2	$\frac{6.15}{(.242)}$
3	$\frac{11.7}{(.461)}$
4	$\frac{16.7}{(.657)}$



No. of Contacts	Dimension A
5	$\frac{19.4}{(.764)}$
6	$\frac{25.5}{(1.004)}$



No. of Contacts	Dimension A	Dimension B (Max.)
2	$\frac{24.41}{(.961)}$	$\frac{30.40}{(1.197)}$
3	$\frac{24.41}{(.961)}$	$\frac{30.40}{(1.197)}$
4	$\frac{24.41}{(.961)}$	$\frac{30.40}{(1.197)}$
5	$\frac{44.83}{(1.765)}$	$\frac{50.30}{(1.98)}$
6	$\frac{44.83}{(1.765)}$	$\frac{50.30}{(1.98)}$

DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

REV. 01/26

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