

Features

- 8 A current rating per contact
- 4 mm pitch
- 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
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 - F L 0 G

Model _____
Terminal Style _____
J = SMT
H = Through-hole
Number of Contacts (N) _____
2 through 6
Gender _____
F = Female
Height _____
L = Low Profile
Options _____
0 = Standard
1 = Locator Pins (J Style Only)
Packaging (MSL-1) _____
___ = Tube: 240/N pcs. or 240 contacts per tube
G = Embossed Tape: 500 pcs. per reel (J/SMT Style Only)

Contact Information

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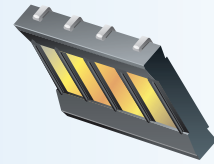
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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.

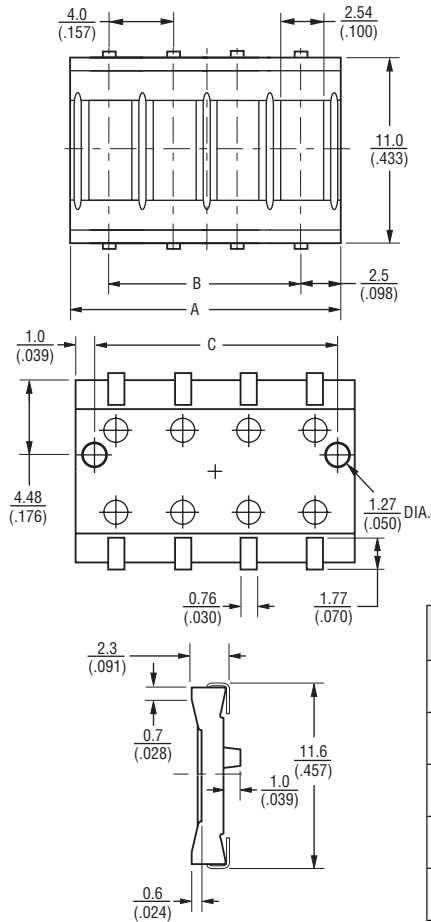
Users should verify actual device performance in their specific applications.

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Product Dimensions

78ADJ

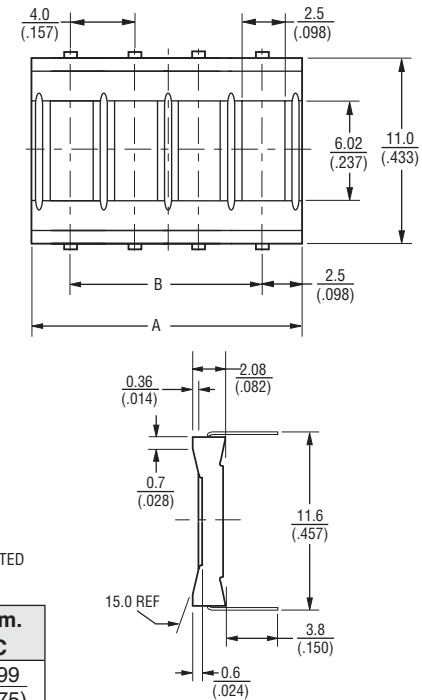


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

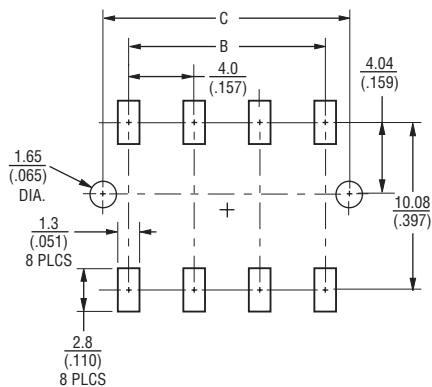
TOLERANCES: $\pm \frac{0.3}{(.012)}$ EXCEPT WHERE NOTED

Number of Contacts	Dim. A	Dim. B	Dim. C
2	9.0 (.354)	4.0 (.157)	6.99 (.275)
3	13.0 (.512)	8.0 (.315)	11.0 (.433)
4	17.0 (.669)	12.0 (.472)	15.0 (.591)
5	21.0 (.827)	16.0 (.630)	19.0 (.748)
6	25.0 (.984)	20.0 (.787)	22.9 (.900)

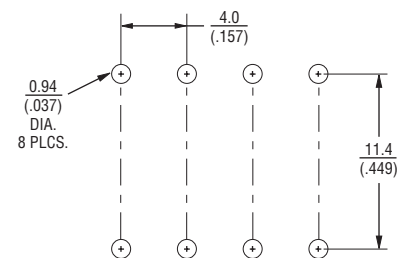
78ADH



78ADJ Recommended PWB Layout

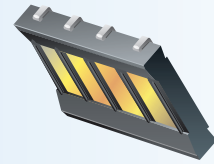


78ADH Recommended PWB Layout



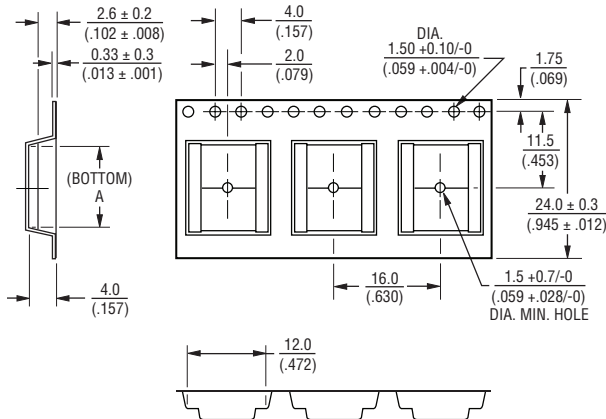
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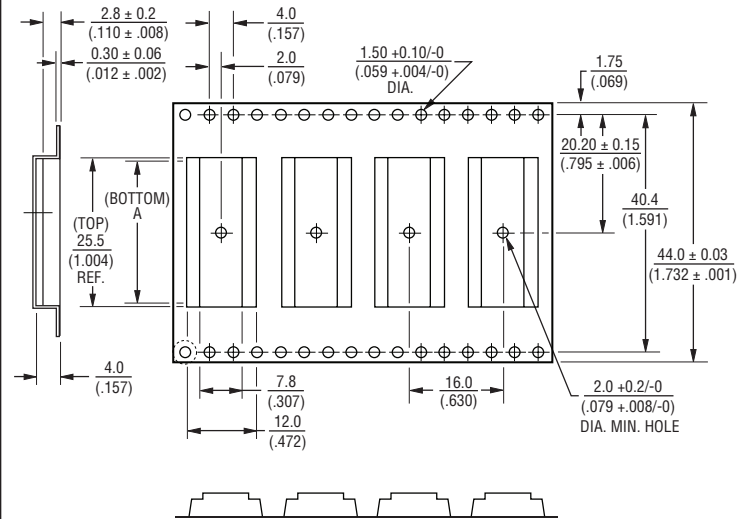


Packaging Specifications

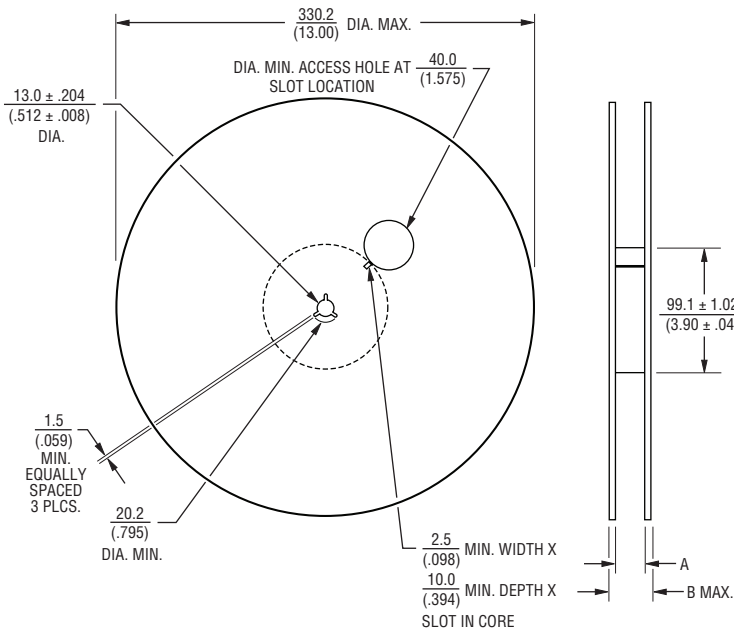
(J/SMT STYLE ONLY)



No. of Contacts	Dimension A
2	9.5 (.374)
3	13.5 (.531)
4	17.5 (.689)



No. of Contacts	Dimension A
5	19.5 (.768)
6	25.5 (1.004)



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

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

REV. 01/26

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