



THE DATASHEET OF 70ADH-4-ML0



Features

- 4 mm pitch
- Low profile
- Rugged design
- Vertical or horizontal entry
- RoHS compliant* - see [processing information](#) on RoHS compliant surface mount components

- High cycle life - 50,000 cycles
- Halogen free**

70AD/Male – Modular Contact

Additional Information

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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 Rating.....DC 3 A/contact
Voltage Rating.....30 VDC
Contact Resistance.....25 mΩ max.
Dielectric Voltage.....500 VAC
Insulating Resistance.....500 MΩ min.
Operating Temperature
.....-55 °C to 125 °C

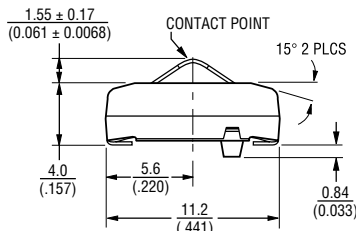
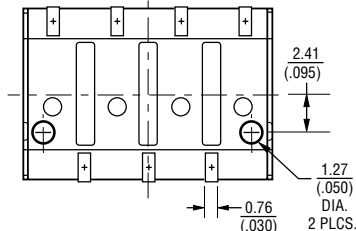
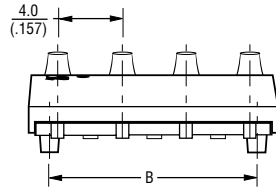
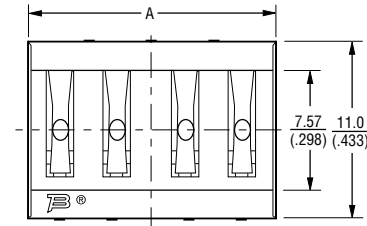
Mechanical

Vibration.....10-55 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.)
Durability.....50,000 cycles min.
Contact Resistance after
50,000 Cycles.....50 mΩ
MSL.....1
ESD Rating (HBM).....3B
Storage Condition
.....40 °C max. / 70 % R.H. max.

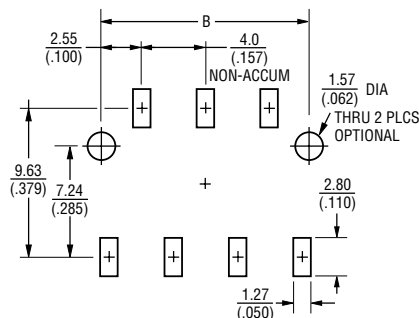
Number of Contacts	Dimension A	Dimension B
2	$\frac{7.82}{(.308)}$	$\frac{5.11}{(.201)}$
3	$\frac{11.82}{(.466)}$	$\frac{9.11}{(.359)}$
4	$\frac{15.82}{(.623)}$	$\frac{13.11}{(.516)}$
5	$\frac{19.82}{(.781)}$	$\frac{17.11}{(.674)}$
6	$\frac{23.83}{(.938)}$	$\frac{21.11}{(.831)}$

Product Dimensions

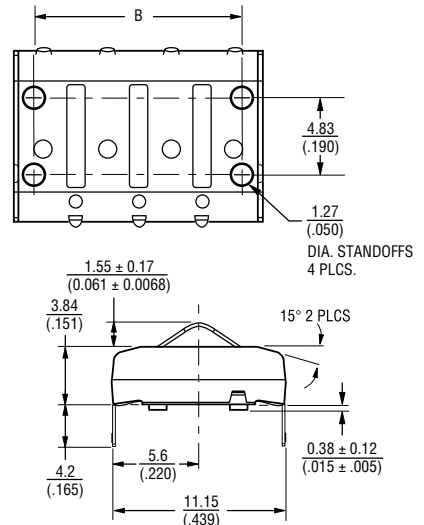
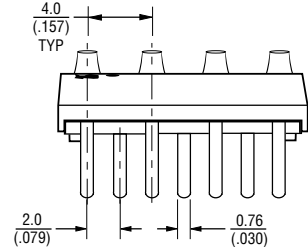
70ADJ



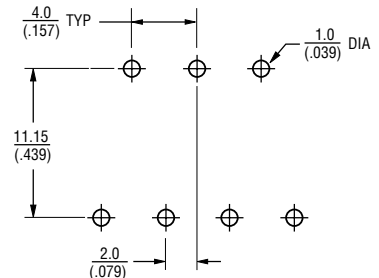
RECOMMENDED PWB MOUNTING PATTERN



70ADH



RECOMMENDED PWB PCB HOLE PATTERN



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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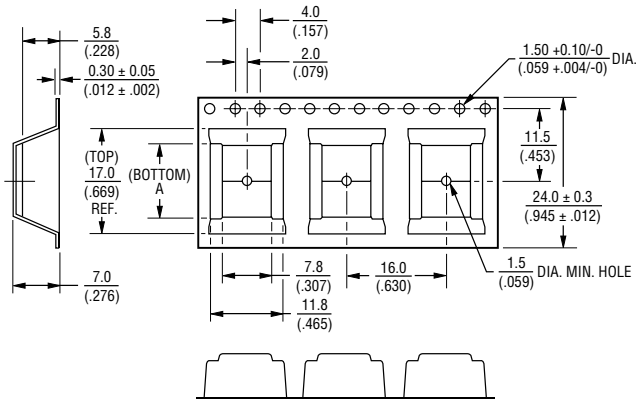
DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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

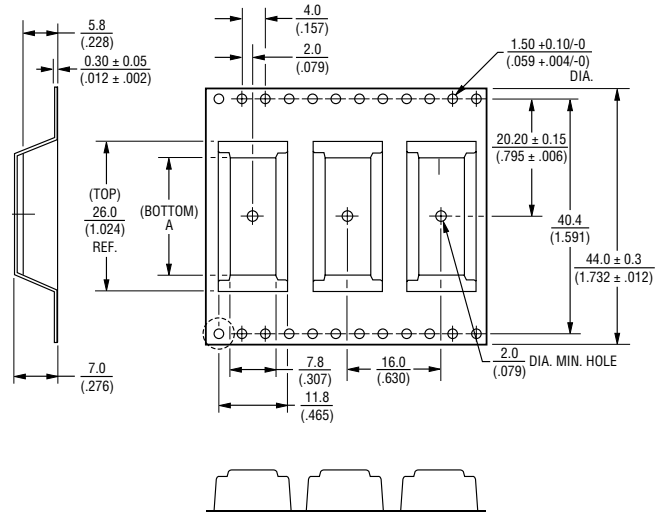
70AD/Male – Modular Contact

BOURNS®

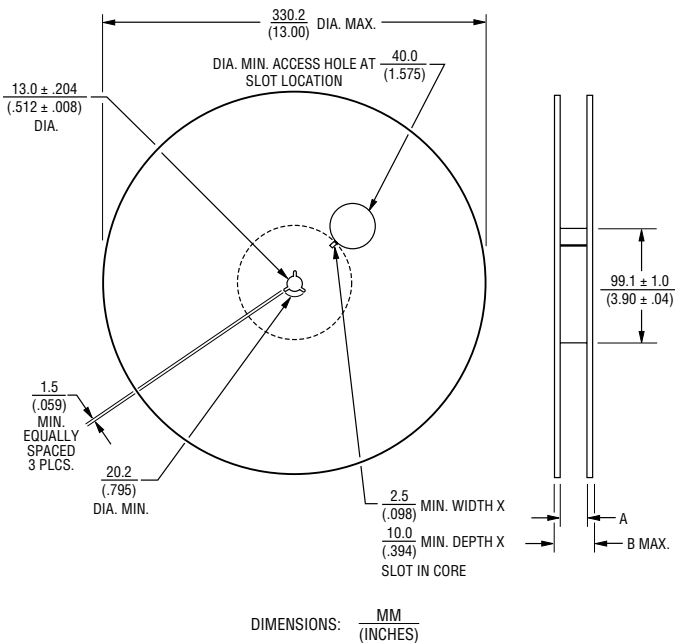
Packaging Specifications



No. of Contacts	Dimension A
2	6.15 (.242)
3	11.7 (.461)
4	16.7 (.657)



No. of Contacts	Dimension A
5	19.4 (.764)
6	25.5 (1.004)



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

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)

How to Order

70AD J - 3 - M L 0 G

Model _____
 Terminal Style _____
 J = SMT
 H = Through-hole
 Number of Contacts _____
 2 through 6
 Gender _____
 M = Male
 Height _____
 L = Low Profile
 Options _____
 0 = Standard
 1 = Locator Pins (J style only)
 Packaging Option _____
 _ = Tube (120/N pcs. or 120 contacts per tube)
 G = Embossed Tape (500 pcs. per reel)

REV. 02/24

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