

Features

- 6 A current rating per contact
- 2.54 mm pitch and height
- Precious metal contacts
- High cycle life - 50K cycles
- RoHS compliant* - see [processing information](#) on RoHS compliant surface mount components
- 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 high current 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 platform introduces significant enhancements in current-carrying capability.

This innovative system retains the modularity and flexibility that engineers value, offering stackable configurations, multiple pitch options, and versatile mating orientations to accommodate a wide range of design requirements. Whether for board-to-board, board-to-device, or docking applications, the new platform ensures low contact resistance, minimal heat rise, and an extended life cycle.

Materials & Finishes

Insulator.....Glass reinforced thermoplastic, UL 94V-0 rated, black
Contact.....Copper alloy
Finish

Underplating30 μ" min. Ni
Contact Area.....30 μ" min. Au over Ni

Operating Characteristics

Electrical

Current Rating6 A/contact
Voltage Rating60 V
Contact Resistance.....30 mohms max.
Dielectric Voltage500 VAC
Insulating Resistance1000 Mohms min.
Operating Temperature-55 °C to 125 °C

Mechanical

Durability50,000 cycles min.
Contact Resistance after 50,000 Cycles50 mΩ
MSL1
ESD Rating (HBM).....3B
Storage Condition40 °C max. / 70 % R.H. max.

How to Order

76AA J - 4 - F 0 G

Model _____
Terminal Style _____
J = SMT
Number of Contacts (N) _____
2 through 6
Gender _____
F = Female
Options _____
0 = Standard
1 = Locating Pins
Packaging Option (MSL-1) _____
___ = Tube
G = Embossed Tape (1,000 pcs. per reel)

Contact Information

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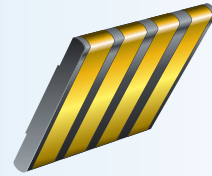
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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.

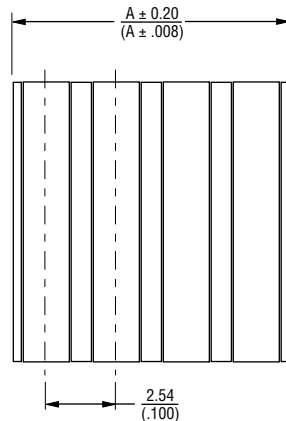
Users should verify actual device performance in their specific applications.

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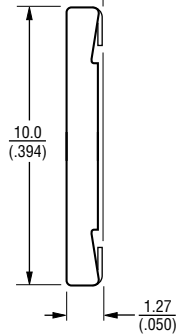


Product Dimensions

Standard Version (-0)

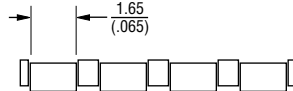


LEADS TO BE
COPLANAR WITHIN
 $\frac{0.10}{(.004)}$

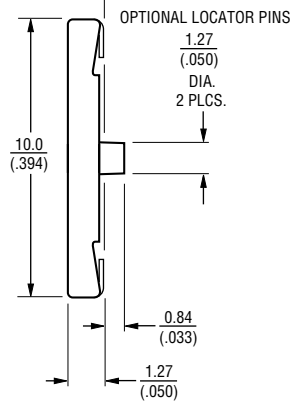


Number of Contacts	Dimension A	Dimension B
2	$\frac{4.98}{(.196)}$	$\frac{2.54}{(.100)}$
3	$\frac{7.52}{(.296)}$	$\frac{5.08}{(.200)}$
4	$\frac{10.06}{(.396)}$	$\frac{7.62}{(.300)}$
5	$\frac{12.60}{(.496)}$	$\frac{10.16}{(.400)}$
6	$\frac{15.14}{(.596)}$	$\frac{12.70}{(.500)}$

Locating Pins Version (-1)

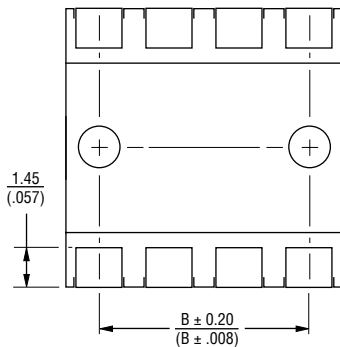


LEADS TO BE
COPLANAR WITHIN
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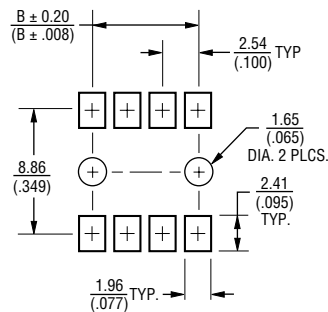


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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



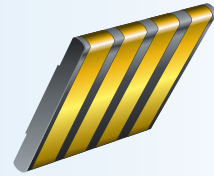
Recommended PWB Layout



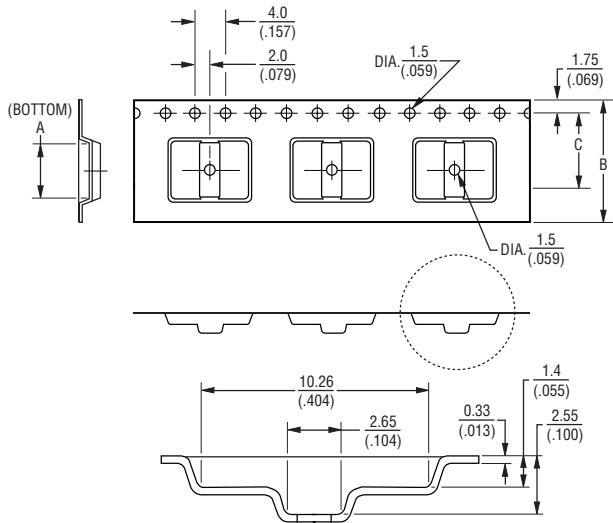
DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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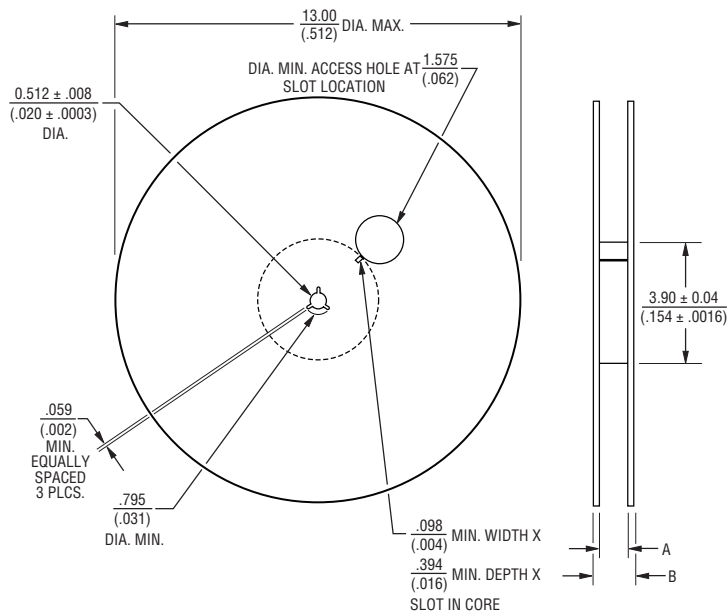


Packaging Specifications



No. of Contacts	Dimension A	Dimension B	Dimension C
2	$\frac{5.23}{(.206)}$	$\frac{16.0}{(.630)}$	$\frac{7.5}{(.295)}$
3	$\frac{7.77}{(.306)}$	$\frac{16.0}{(.630)}$	$\frac{7.5}{(.295)}$
4	$\frac{10.31}{(.406)}$	$\frac{24.0}{(.945)}$	$\frac{11.5}{(.453)}$
5	$\frac{12.85}{(.506)}$	$\frac{24.0}{(.945)}$	$\frac{11.5}{(.453)}$
6	$\frac{15.39}{(.606)}$	$\frac{24.0}{(.945)}$	$\frac{11.5}{(.453)}$

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



No. of Contacts	Dimension A	Dimension B (Max.)
2	$\frac{.646}{(.025)}$	$\frac{.882}{(.035)}$
3	$\frac{.646}{(.025)}$	$\frac{.882}{(.035)}$
4	$\frac{.961}{(.038)}$	$\frac{1.197}{(.047)}$
5	$\frac{.961}{(.038)}$	$\frac{1.197}{(.047)}$
6	$\frac{.961}{(.038)}$	$\frac{1.197}{(.047)}$

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