

### 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 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

### Operating Characteristics

Electrical  
 Current Rating .....6 A/contact  
 Voltage Rating .....60 V  
 Contact Resistance.....25 mohms max.  
 Dielectric Voltage .....500 VAC  
 Insulating Resistance .....1000 Mohms min.  
 Operating Temperature .....-55 °C to 125 °C

Mechanical  
 Vibration .....30 G, 10-2K Hz, 0.06 inches D.A.  
 Shock.....100 G  
 Normal Force.....80 grams min., at a working height of 0.25 mm (0.010 inches)

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.

### How to Order

**76AA J - 4 - M 0 G**

Model \_\_\_\_\_

Terminal Style \_\_\_\_\_  
 J = SMT

Number of Contacts (N) \_\_\_\_\_  
 2 through 6

Gender \_\_\_\_\_  
 M = Male

Options \_\_\_\_\_  
 0 = Standard

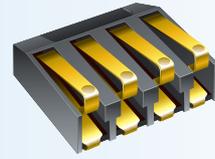
Packaging Option (MSL-1) \_\_\_\_\_  
 \_\_\_ = Tube  
 G = Embossed Tape (1,000 pcs. per reel)

### Contact Information

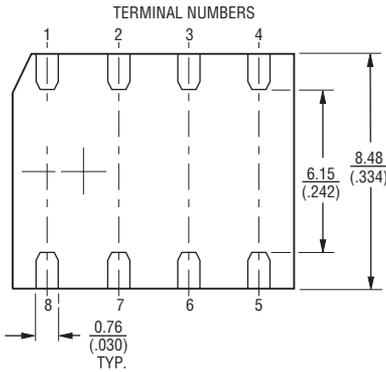
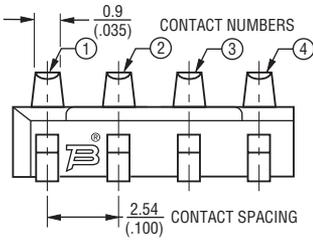
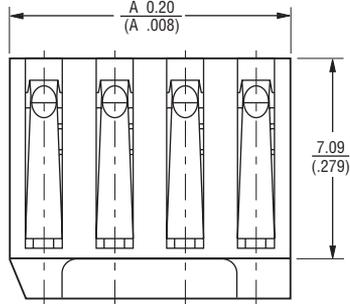
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\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.  
 \*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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### Product Dimensions

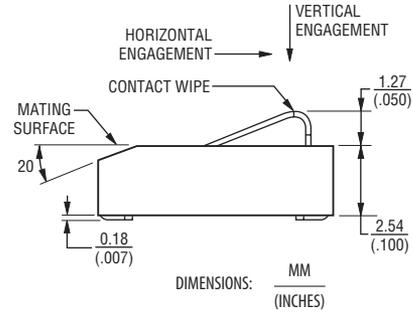


Number of Contacts	Dimension A
2	$\frac{5.00}{(.197)}$
3	$\frac{7.54}{(.297)}$
4	$\frac{10.20}{(.397)}$
5	$\frac{12.62}{(.497)}$
6	$\frac{15.16}{(.597)}$

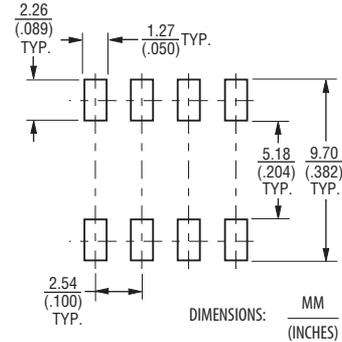
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

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

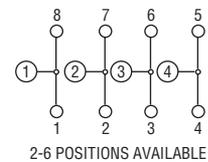
### Contacts



### Recommended PWB Layout

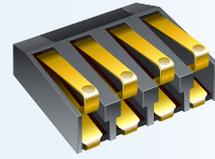


### Electrical Schematic

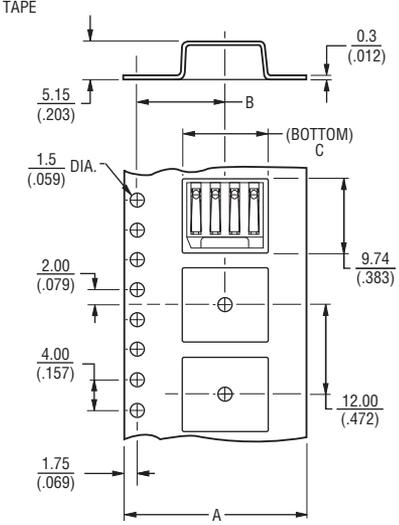


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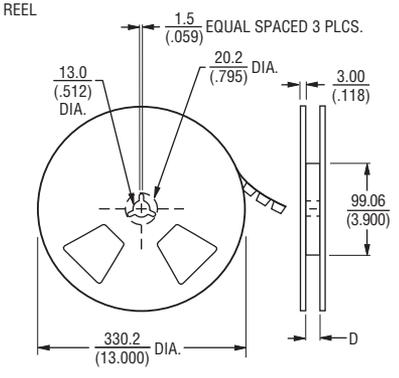


### Packaging Specifications



No. of Contacts	Dimension A	Dimension B	Dimension C	Dimension D
2	16.0 (.630)	7.5 (.296)	5.32 (.209)	16.4 (.646)
3	16.0 (.630)	7.5 (.296)	7.82 (.308)	16.4 (.646)
4	24.0 (.945)	11.5 (.453)	10.4 (.409)	24.4 (.961)
5	24.0 (.945)	11.5 (.453)	12.95 (.510)	24.4 (.961)
6	24.0 (.945)	11.5 (.453)	15.5 (.610)	24.4 (.961)

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



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