

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 Rating6 A/contact
Voltage Rating60 V
Contact Resistance.....25 mohms max.
Dielectric Voltage500 VAC
Insulating Resistance1000 Mohms min.
Operating Temperature-55 °C to 125 °C
Mechanical
Vibration30 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)
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

Model 76AA J - 4 - M 0 G
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

www.bourns.com	Phone	Email
Asia-Pacific	+886-2 2562-4117	asiacus@bourns.com
Europe	+36 88 885 877	eurocus@bourns.com
Mexico	+52 614 478 0400	mexicus@bourns.com
The Americas	+1-951 781-5500	americus@bourns.com

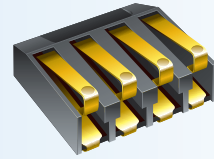
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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.

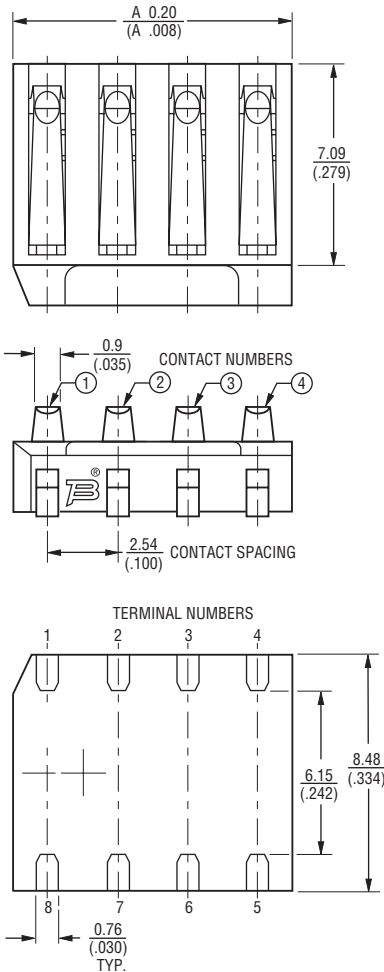
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Product Dimensions

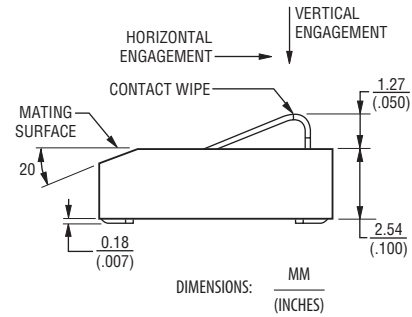


Number of Contacts	Dimension A
2	$\frac{5.00}{(.197)}$
3	$\frac{7.54}{(.297)}$
4	$\frac{10.20}{(.397)}$
5	$\frac{12.62}{(.497)}$
6	$\frac{15.16}{(.597)}$

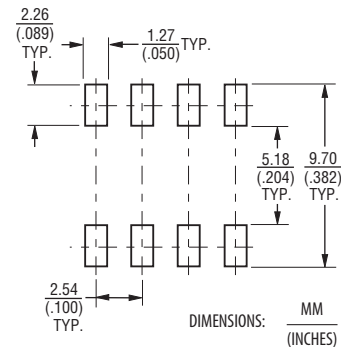
DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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

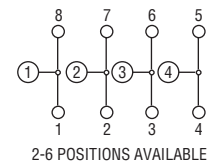
Contacts



Recommended PWB Layout

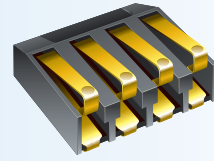


Electrical Schematic

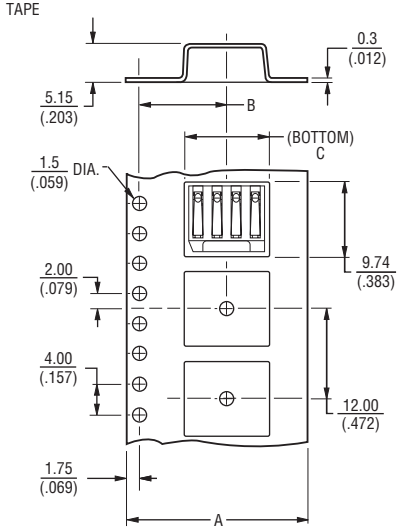


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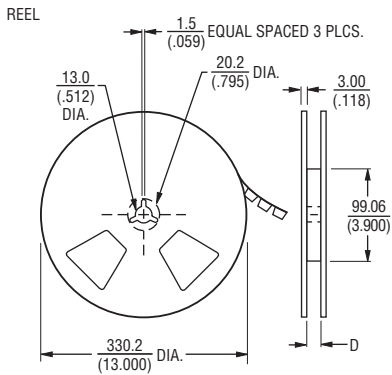


Packaging Specifications



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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