



## Features

- 2.54 mm pitch & height
- 2 to 6 precious metal contacts
- End-to-end stackable
- Twin hot contacts (symmetrical pad layout)
- Pick & place compatible
- High cycle life

- RoHS compliant\* - see [processing information](#) for RoHS compliant surface mount components
- Halogen free\*\*

## 70AA/Female - Modular Contact

### Materials & Finishes

Insulator.... Glass reinforced thermoplastic,  
UL 94V-0 rated, black  
Contact ..... Copper alloy  
Finish  
Underplating..... 30  $\mu$ " min. Ni  
Contact Area ..... 30  $\mu$ " min. Au over Ni

### Operating Characteristics

Electrical  
Current Rating..... 3 A/contact  
Voltage Rating..... 60 V  
Contact Resistance..... 30 mohms max.  
Dielectric Voltage ..... AC 500 V  
Insulating Resistance .. 1000 Mohms min.  
Operating Temperature ..... -55 °C to 125 °C

Mechanical  
Durability..... 50,000 cycles min.  
Contact Resistance after  
50,000 Cycles ..... 50 m $\Omega$   
MSL ..... 1  
ESD Rating (HBM) ..... 3B

### How to Order

70AA 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 (240/N pcs. or 240 contacts  
per tube)  
G = Embossed Tape (750 pcs. per reel)



**WARNING** Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

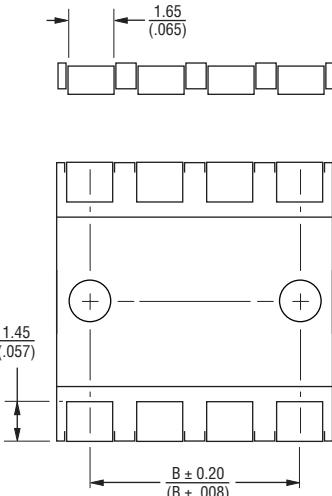
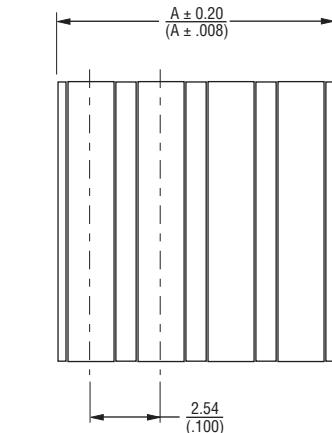
\*\* Bourns considers a product to be "halogen free" if  
(a) the Bromine (Br) content is 900 ppm or less;  
(b) the Chlorine (Cl) content is 900 ppm or less; and  
(c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.

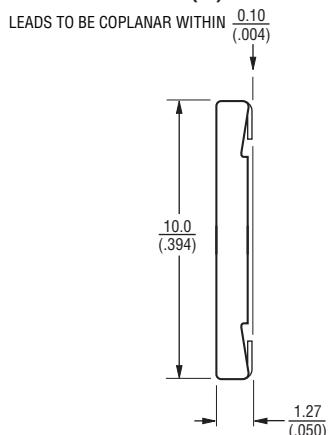
Users should verify actual device performance in their specific applications.

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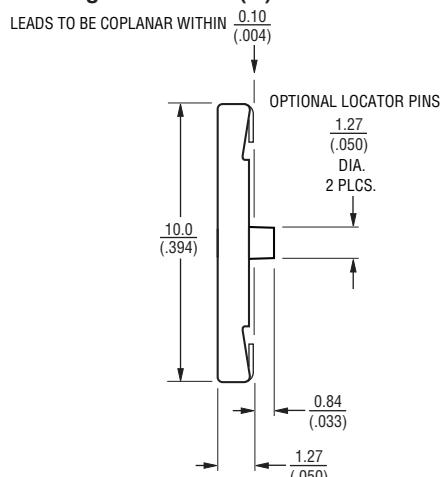
### Product Dimensions



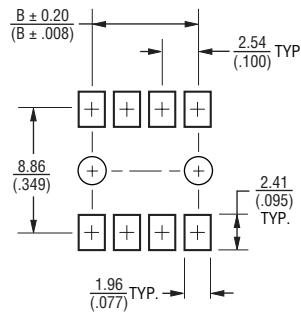
### Standard Version (-0)



### Locating Pins Version (-1)



### Recommended PWB Layout



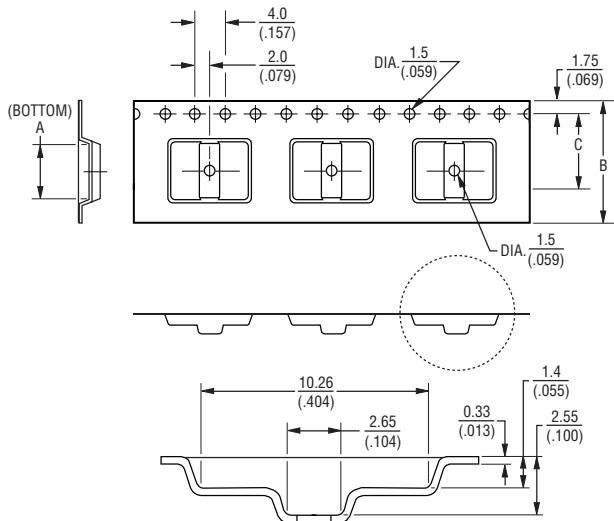
TOLERANCES:  $\pm 0.3$   $(\pm .012)$  UNLESS OTHERWISE NOTED

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

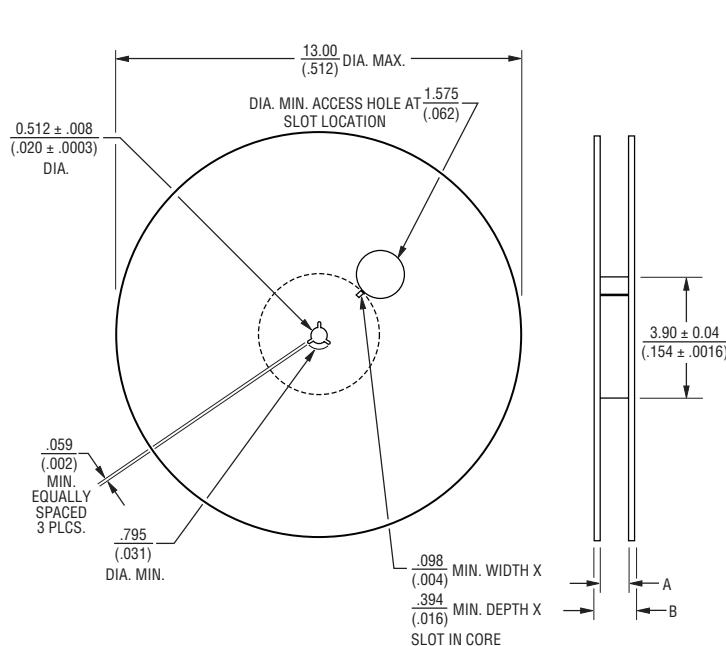
# 70AA/Female - Modular Contact

**BOURNS®**

## Packaging Specifications



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



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

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

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