



Features

- 1.27 mm pitch
- Precious metal contacts
- Twin hot contacts (symmetrical pad layout)
- Pick & place compatible
- High cycle life
- RoHS compliant* - see [processing information](#) on RoHS compliant modular contacts
- Halogen free**

70AB/Male - Modular Contact

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..... 3 A/contact
Voltage Rating..... 60 V
Contact Resistance..... 25 milliohms max.
Dielectric Voltage..... AC 500 V
Insulating Resistance.. 1000 Mohms min.
Operating Temperature
..... -55 °C to +125 °C

Mechanical
Normal Force/Finger..... 40 grams min.
Durability..... 50,000 cycles min.
Contact Resistance after
50,000 Cycles..... 50 mΩ
MSL..... 1
ESD Rating (HBM)..... 3B

How to Order

70AB J - 4 - M 0 E

Model _____
Terminal Style _____
Number of Contacts (N) _____
2, 3 or 4
Gender _____
M = Male
Options _____
0 = Standard
Packaging Option _____
E = Embossed Tape:

- 2, 3 Contacts = 500 pcs. per reel - MSL-1
- 4 Contacts = 1000 pcs. per reel - MSL-1

* 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.

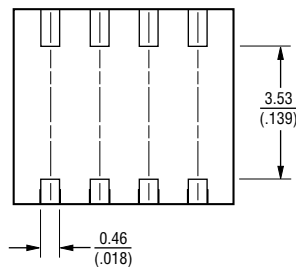
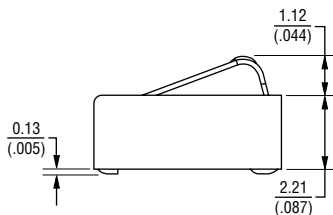
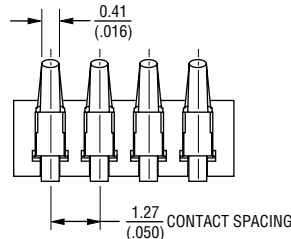
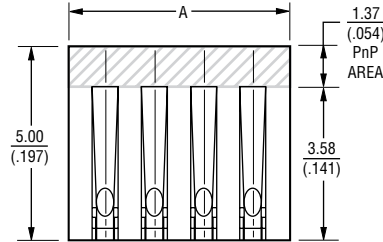
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

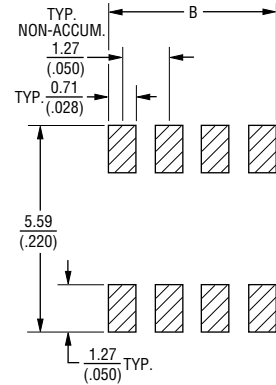
Product Dimensions

70ABJ



Number of Contacts	Dimension A
2	$\frac{3.12}{(.123)}$
3	$\frac{4.39}{(.173)}$
4	$\frac{5.66}{(.223)}$

Recommended PWB Layout



Number of Contacts	Dimension B
2	$\frac{1.98}{(.078)}$
3	$\frac{3.25}{(.128)}$
4	$\frac{4.52}{(.178)}$

TOLERANCES: $\frac{\pm 0.25}{(\pm .010)}$ UNLESS OTHERWISE NOTED

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

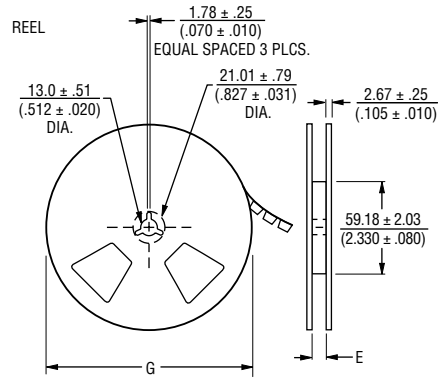
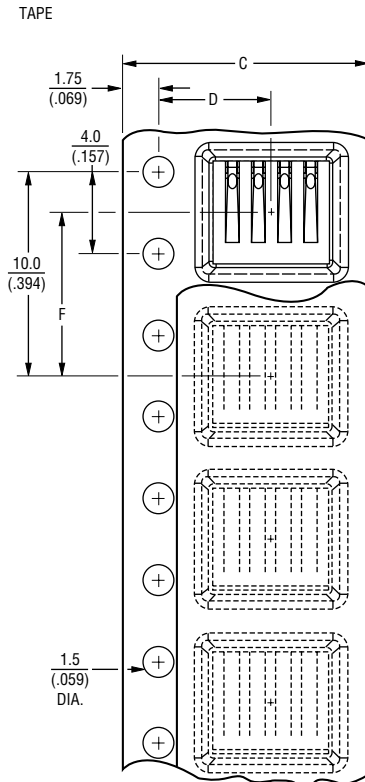
Applications

- Handheld communications - mobile phones, pagers, cordless phones, GPS, PICs, radios
- Portable consumer equipment - PDAs, HPCs, notebook PCs, cameras, dictaphones, PICs, games

70AB/Male - Modular Contact

BOURNS®

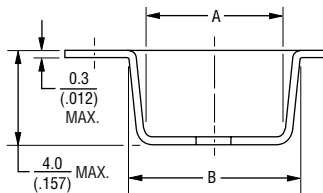
Packaging Specifications



No. of Contacts	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G
2	$\frac{3.49}{(.137)}$	$\frac{4.94}{(.194)}$	$\frac{12.0}{(.472)}$	$\frac{5.5}{(.217)}$	$\frac{12.4}{(.488)}$	$\frac{8.0}{(.315)}$	$\frac{178 \pm 2.0}{(7.008 \pm .079)}$
3	$\frac{4.77}{(.188)}$	$\frac{6.22}{(.245)}$	$\frac{12.0}{(.472)}$	$\frac{5.5}{(.217)}$	$\frac{12.4}{(.488)}$	$\frac{8.0}{(.315)}$	$\frac{178 \pm 2.0}{(7.008 \pm .079)}$
4	$\frac{6.04}{(.238)}$	$\frac{7.50}{(.295)}$	$\frac{16.0}{(.630)}$	$\frac{7.5}{(.295)}$	$\frac{16.0}{(.630)}$	$\frac{12.0}{(.472)}$	$\frac{330.2 \pm 2.0}{(13.0 \pm .079)}$

TOLERANCES: .XX = $\frac{\pm 0.5}{(\pm .020)}$ UNLESS OTHERWISE NOTED
 .XXX = $\frac{\pm 0.127}{(\pm .005)}$ UNLESS OTHERWISE NOTED

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



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

REV. 06/17

Specifications are subject to change without notice.
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.