Pin Grid Arrays



- · Lever actuated zero insertion force mechanism
- Rugged 3-plate construction for durability and electrical reliability
- Available in 10 x 10 through 25 x 25 matrices
- PTFE coated stainless steel handle durable and safe in high humidity environments
- Optical locating holes for robotics loading/ unloading
- Repairable contacts, handles, top-plate, and cam plate are replaceable

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### Physical

Insulation	
Material:	Po

Material: Polyethersulfone (PES) Flammability: UL 94V-0 Color: Black PES Marking: Part Number Identifier and Logo on All Cam Handle Material: Stainless Steel Contact Material: Beryllium Copper Plating: 30μ" (0.76 μm) Gold over 50μ" (1.3 μm) Nickel

## Electrical

Current Rating:1 AmpInsulation Resistance: $> 1 \times 10^{12}$  at 500 VdcWithstanding Voltage:1000 Vrms at sea level

### Environmental

**Operating Temperature Rating:** -55°C to +150°C

### Mechanical

**PES/BeCu** A. When used as a test socket at room temperature 24°C the socket will last 25,000 actuations.

B. Based on field experience, under normal burn-in conditions up to a maximum of 150°C for PES, the socket should last an average of 4 years.

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Grid	Maximum Contact	Dimensions						
Matrix	Quantity	Α	В	С	D	Е	F	G
<b>10 x</b> 10	100	1.70 [ 43.2 ]	.90 [ 22.9 ]	1.15 [ 29.2 ]	1.50 [38.1]	.90 [ 22.9 ]	.80 [ 20.3 ]	.80 [ 20.3 ]
11 x 11	121	1.80 [ 45.7 ]	1.00 [ 25.4 ]	1.25 [ 31.8 ]	1.60 [40.6]	1.00 [ 25.4 ]	.80 [ 20.3 ]	.80 [ 20.3 ]
13 x 13	169	2.00 [ 50.8 ]	1.20 [ 31.8 ]	1.45 [ 36.8 ]	1.80 [ 45.7 ]	1.00 [ 25.4 ]	.80 [ 20.3 ]	.80 [ 20.3 ]
15 x 15	225	2.20 [ 55.9 ]	1.40 [ 35.6 ]	1.65 [ 41.9 ]	2.00 [ 50.8 ]	1.20 [ 30.5 ]	1.30 [ 33.0 ]	1.40 [ 35.6 ]
17 x 17	289	2.40 [ 61.0 ]	1.60 [ 40.6 ]	1.85 [ 47.0 ]	2.20 [ 55.9 ]	1.20 [ 30.5 ]	1.30 [ 33.0 ]	1.40 [ 35.6 ]
19 x 19	361	2.60 [ 66.0 ]	1.80 [ 45.7 ]	2.05 [ 52.1 ]	2.40 [ 61.0 ]	1.40 [ 35.6 ]	1.70 [ 43.2 ]	1.80 [ 45.7 ]
21 x 21	441	2.80 [ 27.1 ]	2.00 [ 50.8 ]	2.25 [ 57.2 ]	2.60 [66.0]	1.40 [ 35.6 ]	1.70 [ 43.2 ]	1.80 [ 45.7 ]
25 x 25	625	3.70 [ 94.0 ]	2.40 [ 61.0 ]	2.65 [ 67.3 ]	3.50 [ 88.9 ]	2.00 [ 50.8 ]	2.58 [65.5]	2.78 [ 70.6 ]

Tolerance <u>inch</u> [mm]				
Dimension	<u>.00</u> [ 0. ]	. <u>000.</u> [ 00. ]		
Tolerance	<u>± .010</u> [±.25]	<u>± .005</u> [±.13]		
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