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 environment
- · Optical locating holes for robotics loading/unloading
- · Repairable contacts, handles, top-plate, and cam plate are replaceable
- Available with flush handle option for use with test probes and ease of board stacking

Date Issued: February 19, 2001

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Physical

Insulation

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: $30 \mu'' (0.76 \mu m)$ Gold over $50 \mu'' (1.3 \mu m)$ Nickel

Electrical

Current Rating: 1 Amp

Insulation Resistance: $> 1 \times 10^{12} \Omega$ at 500 Vdc Withstanding Voltage: 1000 Vrms at Sea Level

Environmental

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

Mechanical

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

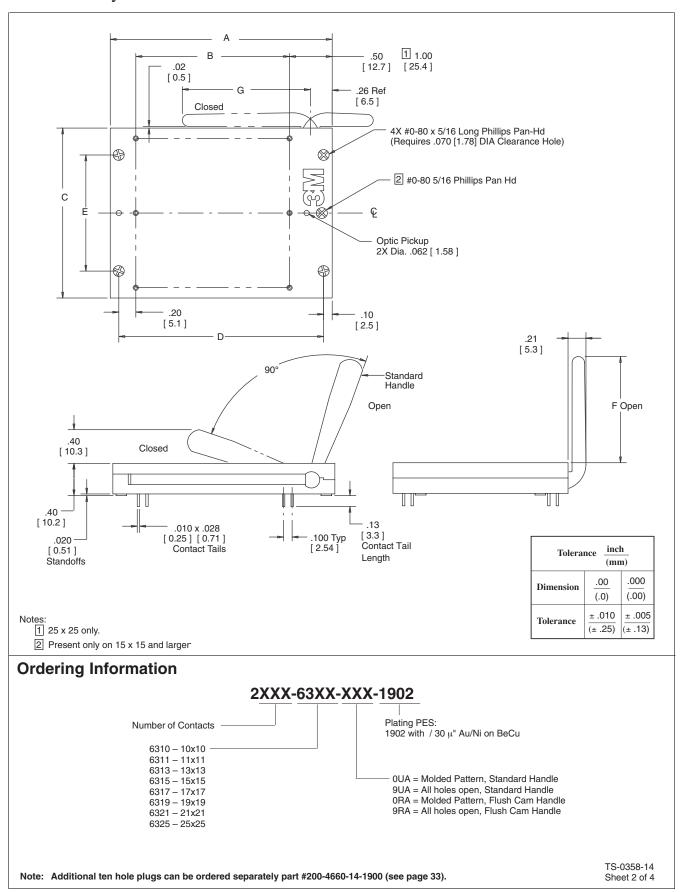
25,000 actuations.

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 four years.

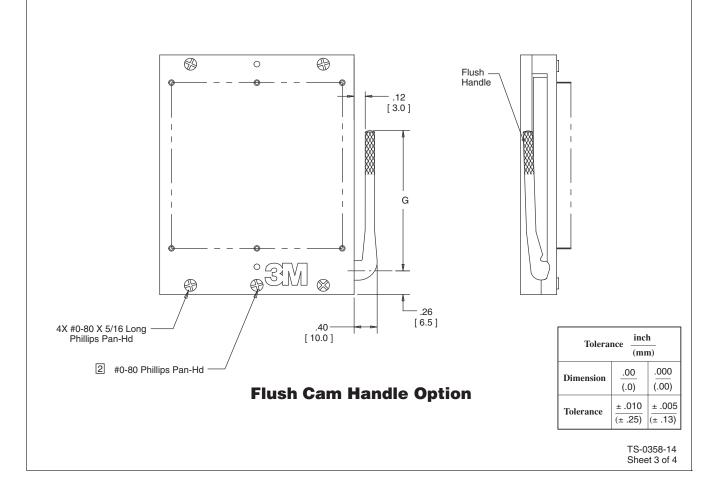
6801 River Place Blvd. Austin, TX 78726-9000 For technical, sales or ordering information call 800-328-0411 or visit our website: http://www.3M.com/ehpd

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Grid Matrix	Maximum Contact Quantity	Dimensions						Dimension G Cam Handle	
		A	В	C	D	E	F	Standard	**Flush
10 x 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]	1.00 [25.4]
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]	1.00 [25.4]
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]	1.00 [25.4]
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]	1.50 [38.1]
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]	1.50 [38.1]
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]	1.90 [48.2]
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]	1.90 [48.2]
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]	2.78 [70.6]



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Тор			
000000000000000000000000000000000000000	Tolera	Tolerance inch (mm)	
000000000000000000000000000000000000000	Dimension	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
	Tolerance	± .010 ± .005	
	Tolerance	(± .25) (± .13)	
	Handle	Side	
10 x 10			
11 x11			
13 x 13			
15 x 15 17 17 17 17 17 17 17 17 17 17 17 17 17			
17 x 17	Mark Indication		
21 x 21	f No holes, r		
	 Holes only, 		
25 x 25	Holes with	contacts	

Front

Notes:

- 1. This is only a work sheet. Do not proceed with any layout until a part number is assigned by Textool. The pattern is subject to repositioning.
- 2. Lead diameter = .022 [0.56] max, .014 [0.36] min. The standard socket has been designed to accept these lead diameters only. For all others please consult the factory.
- 3. Use this sheet to indicate which positions you intend to use.
- 4. Remember: for best results, keep your patterns as symmetrical with the centerline as possible.
- 5. The contact point for all sizes is .085 [2.16] below the top surface and we recommend a device lead length of .100 [2.54] below the solder standoffs.

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