3M™ Textool™ Burn-In Grid ZIP Sockets

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

Date Modified: November 8, 2004

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:	30µ" (0.76 µm) Gold over 50µ" (1.3 µm) Nickel

Electrical

Current Rating:	1 Amp
Insulation Resistance:	$> 1 \times 10^{12}$ at 500 Vdc
Withstanding 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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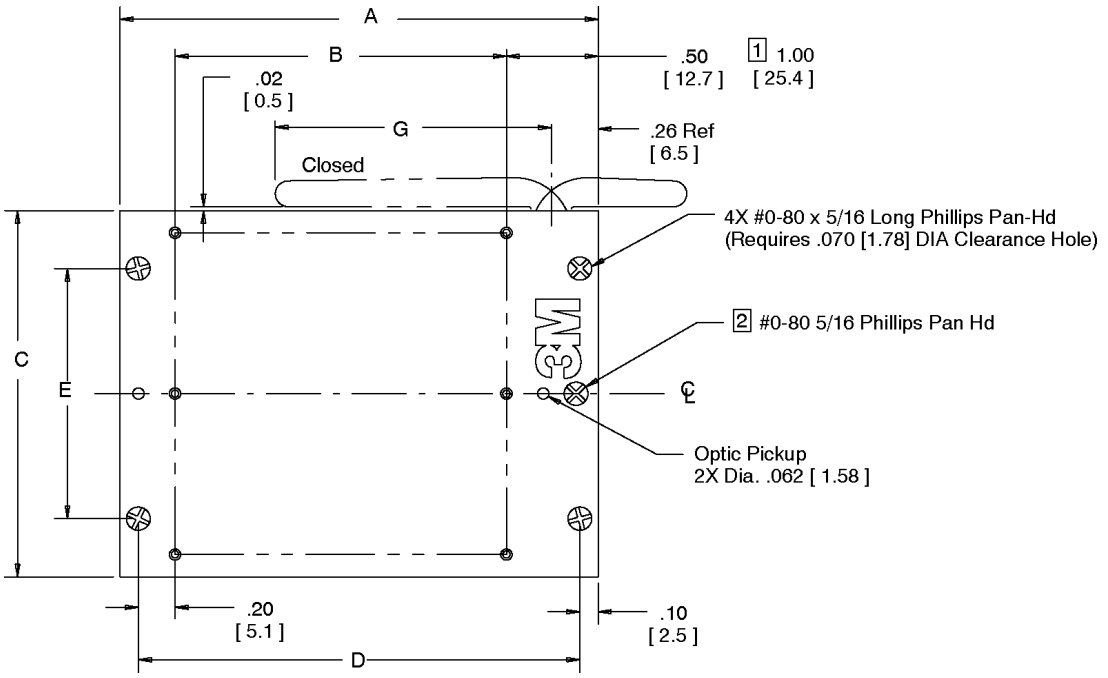

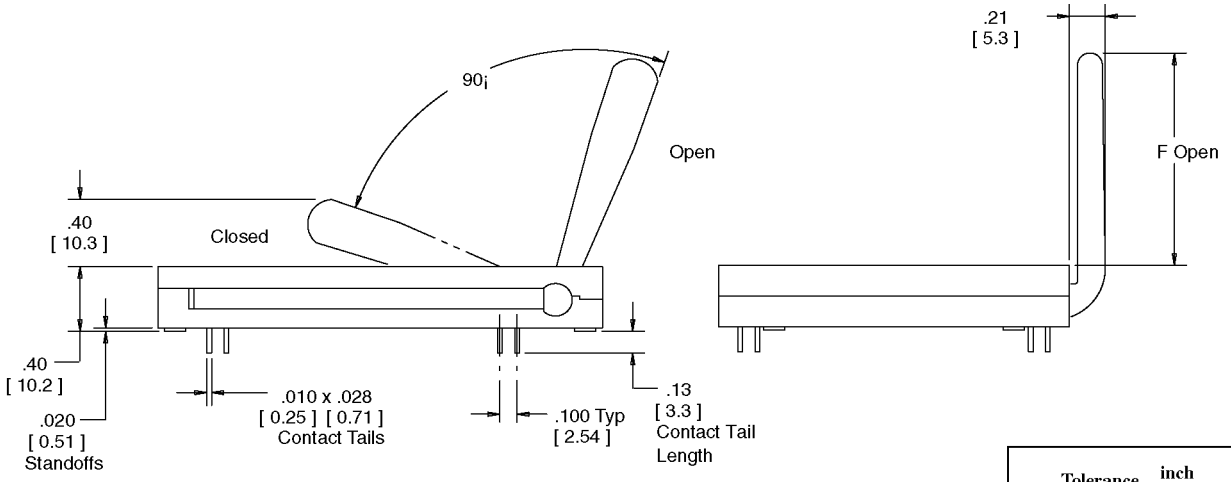

Tolerance inch [mm]		
Dimension	.00 [.0]	.000 [.00]
Tolerance	± .010 [± .25]	± .005 [± .13]

Notes:
1. 25 x 25 only.
2. Present only on 15 x 15 and larger

Ordering Information

2XXX - 63XX - XXX - 1902

- 2XXX — Number of Contacts
- 63XX — 6310-10x10, 6311-11x11, 6313-13x13, 6315-15x15, 6317-17x17, 6319-19x19, 6321-21x21, 6324-25x25
- XXX — 0UA = Molded Pattern; 9UA = All holes open
- 1902 — Plating PES: 1902 with /30µ" Au/Ni on BeCu

Note: Additional ten hole plugs can be ordered separately, part #200-4660-14-1900

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Grid Matrix	Maximum Contact Quantity	Dimensions						
		A	B	C	D	E	F	G
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]
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 inch / [mm]		
Dimension	.00 [.0]	.000 [.00]
Tolerance	± .010 [± .25]	± .005 [± .13]

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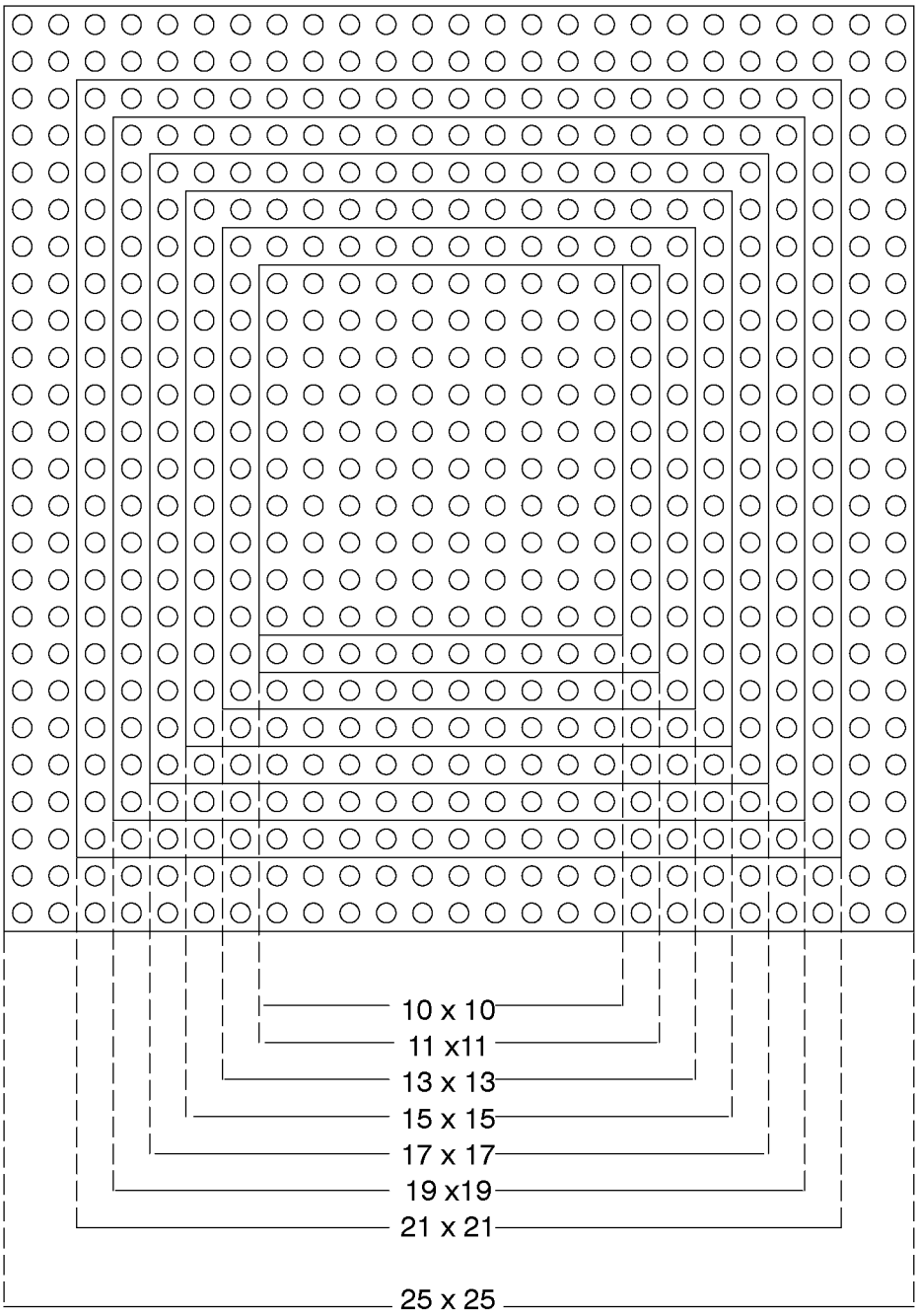

Tolerance inch [mm]		
Dimension	.00 [.0]	.000 [.00]
Tolerance	± .010 [± .25]	± .005 [± .13]

Handle Side

Mark Indications:

x No holes, no contacts

○ Holes only, no contacts

● Holes with contacts

Notes:

1. This is only a work sheet. Do not proceed with any layout until a part number is assigned by 3M. 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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Electronic Solutions Division

6801 River Place Blvd.
Austin, TX 78726-9000
www.3M.com/esd

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