

Test & 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 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: November 1, 1999

TS-0358-12
Sheet 1 of 4

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 μ l (0.76 mm) Gold – MIL-G-45204, Type II, Grade C, over 50 μ l (1.3 mm) Nickel QQ-N-290A, Class 2

Electrical

Current Rating: 1 Amp
Insulation Resistance: $> 1 \times 10^{12}$ Wat 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.

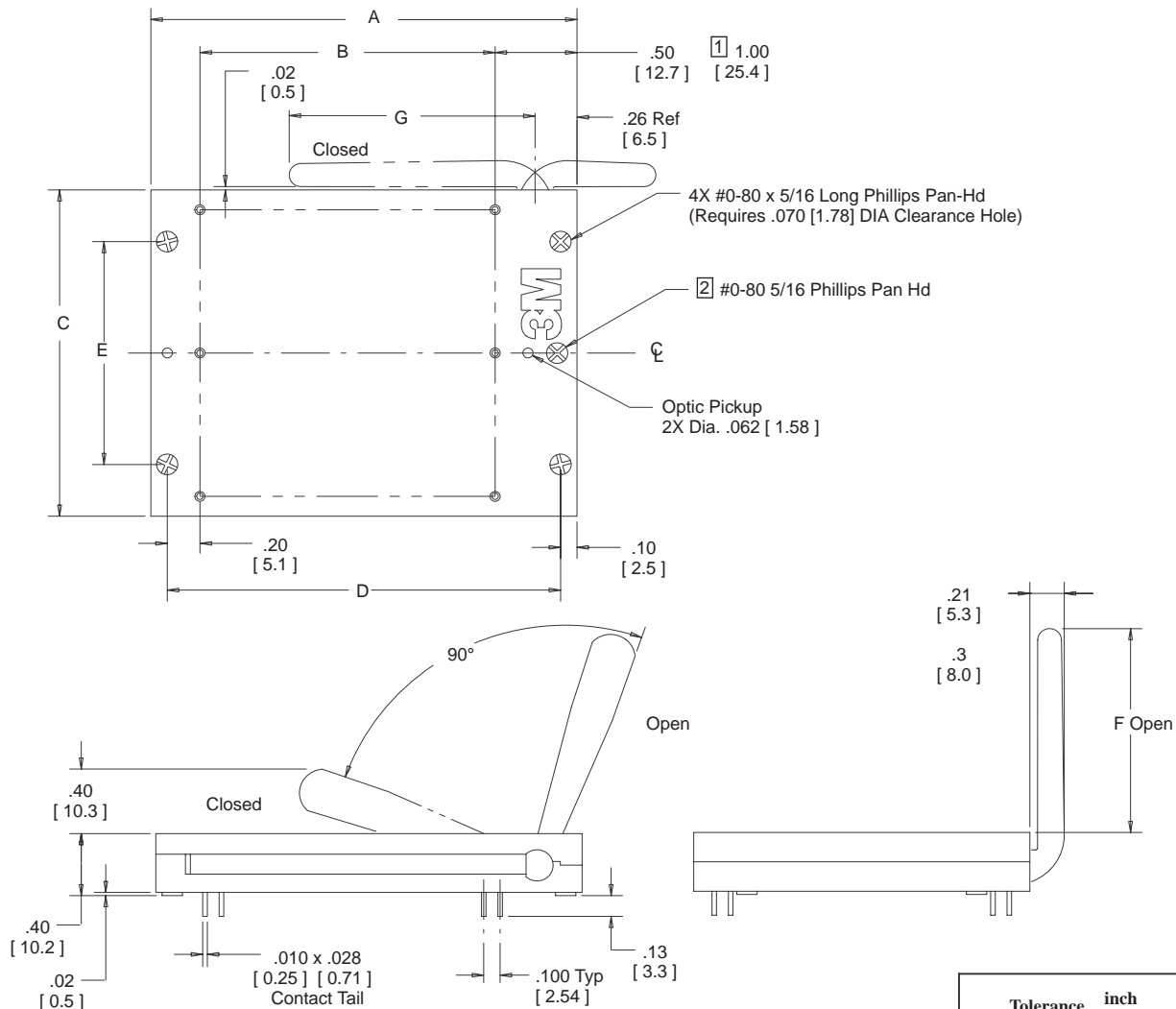
3M Electronic Handling and Protection Division

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>

Test & Burn-In Grid ZIP Sockets

Pin Grid Arrays

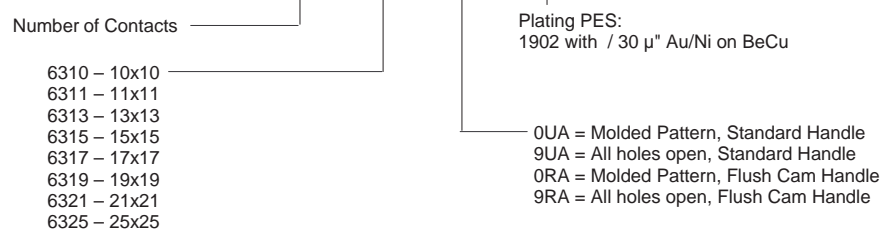


Dimension	Tolerance	
	inch	mm
	.00 (.0)	.000 (.00)
Tolerance	±.010 (±.25)	±.005 (±.13)

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

Ordering Information

2XXX-63XX-XXX-1902



Note: Ten hole plugs can be ordered separately part #200-4660-14-1900.

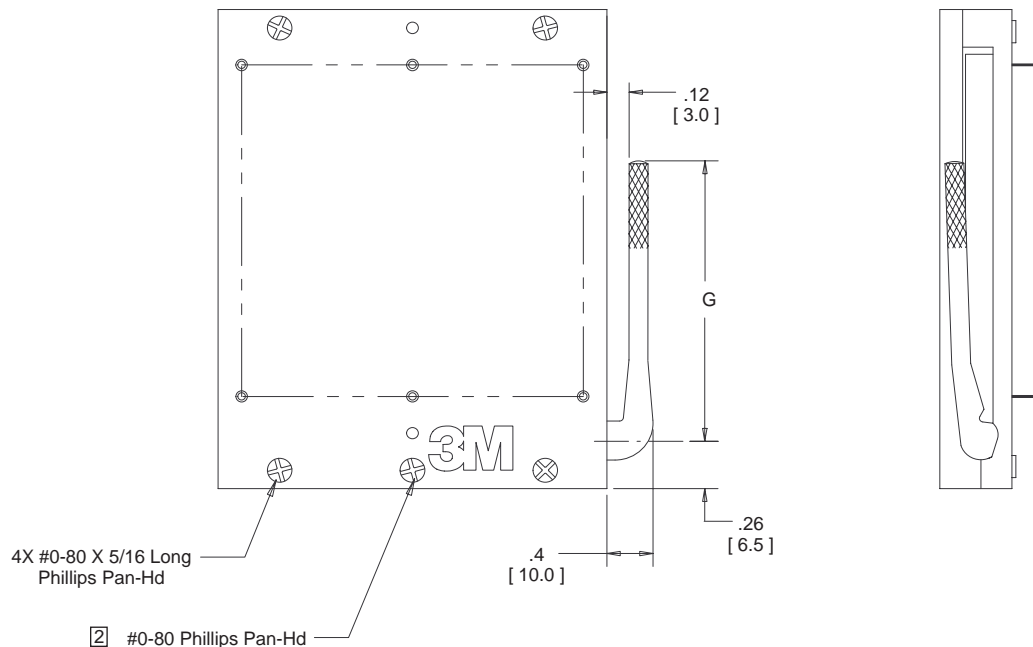
TS-0358-12
 Sheet 2 of 4

Test & Burn-In Grid ZIP Sockets

Pin Grid Arrays

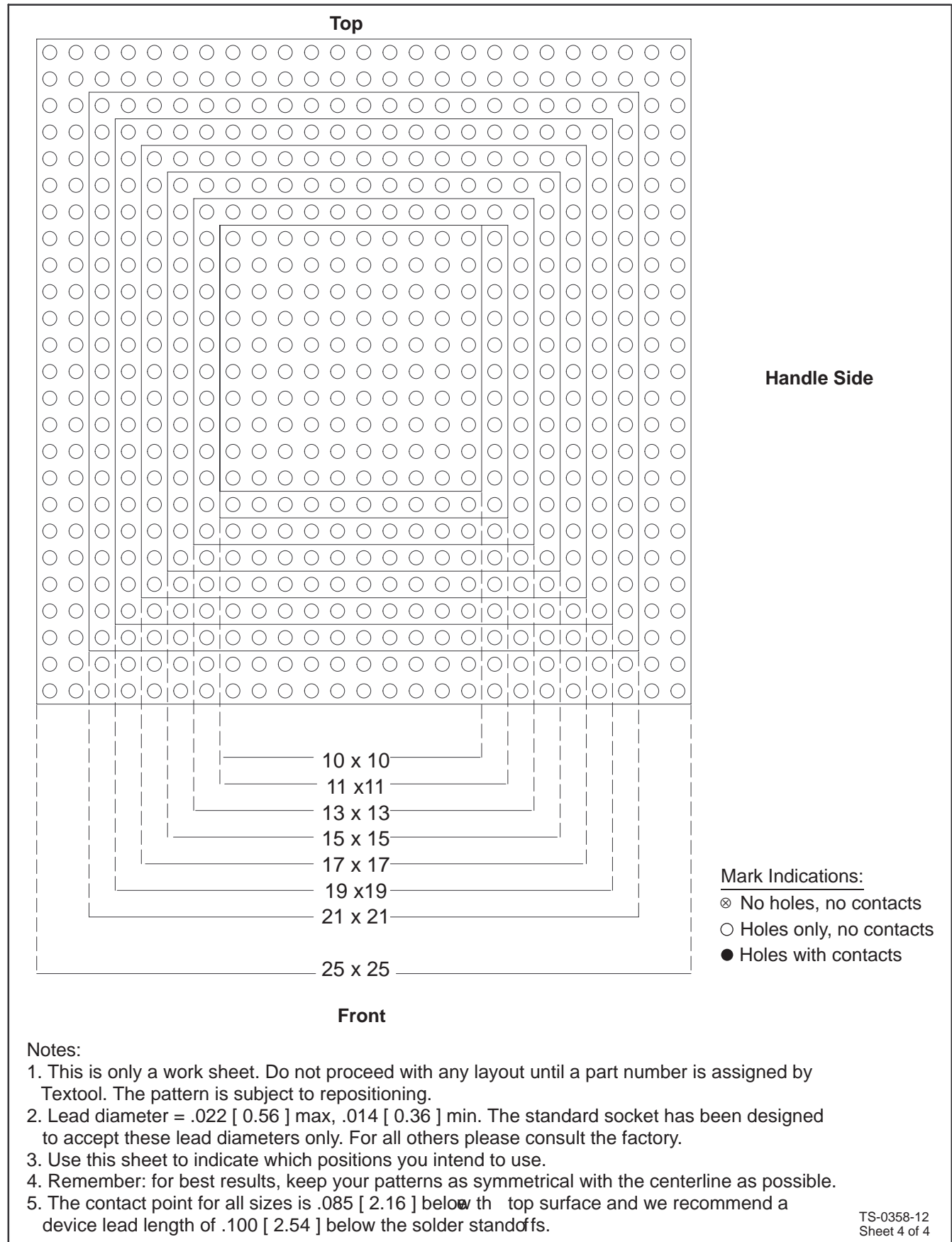
Grid Matrix	Maximum Contact Quantity	Dimensions						Dimension G Cam Handle	
		A	B	C	D	E	F	Standard	**Flush
10 x 10	100	1.70 [43.2]	.90 [22.9]	1.15 [29.2]	1.50 [38.1]	.90 [22.9]	.80 [20.3]	.80 [20.3]	1.00 [25.4]
11 x 11	121	1.80 [45.7]	1.00 [25.4]	1.25 [31.8]	1.60 [40.6]	1.00 [25.4]	.80 [20.3]	.80 [20.3]	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 [71.1]	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]

**For -0RA and -9RA flush cam handle option only



Test & Burn-In Grid ZIP Sockets

Pin Grid Arrays



- 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.