Top View

GHz BGA Socket - Direct mount, solderless

Features

- Directly mounts to target PCB (needs tooling holes) with hardware.
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Easily removable swivel socket lid

Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.



Socket base: Black anodized Aluminum. Thickness = 5mm.



Compression Plate: Black anodized Aluminum. Thickness = 2.5mm.



Compression screw: Clear anodized Aluminum. Thickness = 5mm, Hex socket = 5mm.



Elastomer: 20 micron dia gold plated brass filaments arranged symmetrically in a silicone

FR4.

head cap, alloy steel with thread, 9.525mm long.

screw, 18-8 SS, 0-80 fine

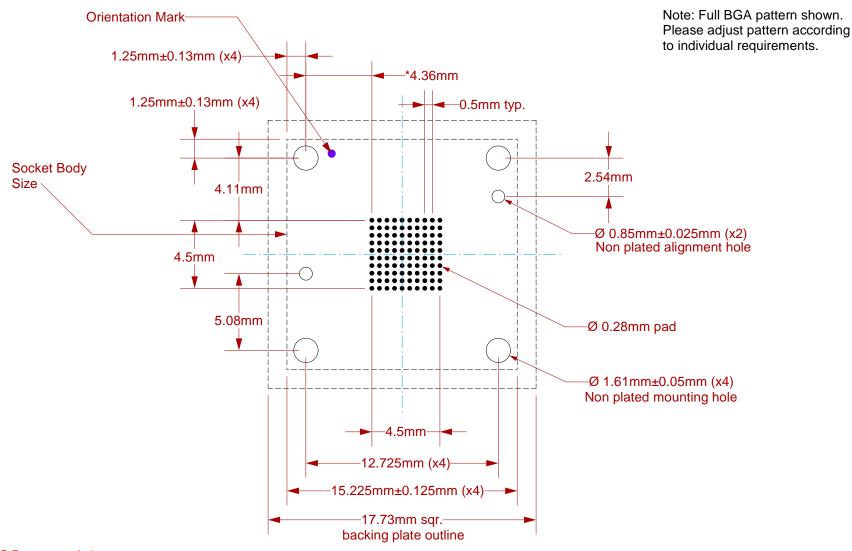
Thickness = 1.59mm.

ed Aluminum.

				——Decemberded torque O.F. in the /	70 \	rubber (63.5 degree angle). Thickness = 0.5mm.
<u> </u>			\wedge	Recommended torque = 0.5 in lbs./ 8 in oz.	6	Elastomer Guide: Non-clad FR Thickness = 0.475mm.
2			3	9	<u>/</u> 7	Ball Guide: Kapton polyimide.
Assembled 8.25mm +				^	8	Socket base screw: Socket heablack oxide finish, 0-80 fine thr
IC thickness				8 ^	9	Socket lid screw: Shoulder screthread.
				/12 /7	10	Insulation Plate: FR4/G10, Thi
					11	Backing Plate: Black anodized Thickness = 6.35mm.
Side View (Section AA)	11	Customer's BGA IC		Customer's Target PCB	12	IC Guide: Torlon

SG-BGA-7051 Drawing		Status: Released	Scale	: -	Rev: C
© 2005 IRONWOOD ELECTRONICS, INC. Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: H. Hansen		Date: 5/10/05		
	` ,	File: SG-BGA-7051 Dwg		Modified: 07/16/14, DH	

All tolerances: ±0.125mm (unless stated otherwise). Materials and specifications are subject to change without notice.



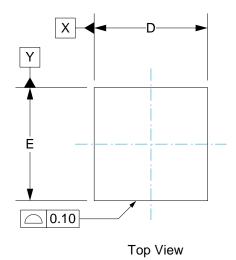
Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish

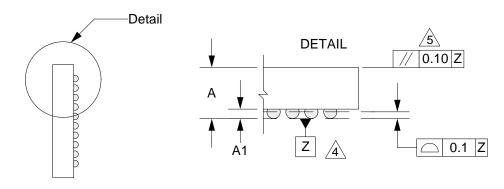
PCB Pad height: Same or higher than solder mask

All dimensions are in mm unless stated otherwise

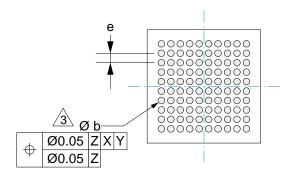
Recommended PCB Layout Tolerances: ±0.025mm [±0.001"] unless stated otherwise.

	SG-BGA-7051 Drawing	Status: Released	Scale	: 4:1	Rev: C
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	` ,	File: SG-BGA-7051 Dwg	File: SG-BGA-7051 Dwg		Modified: 07/16/14, DH





Side View



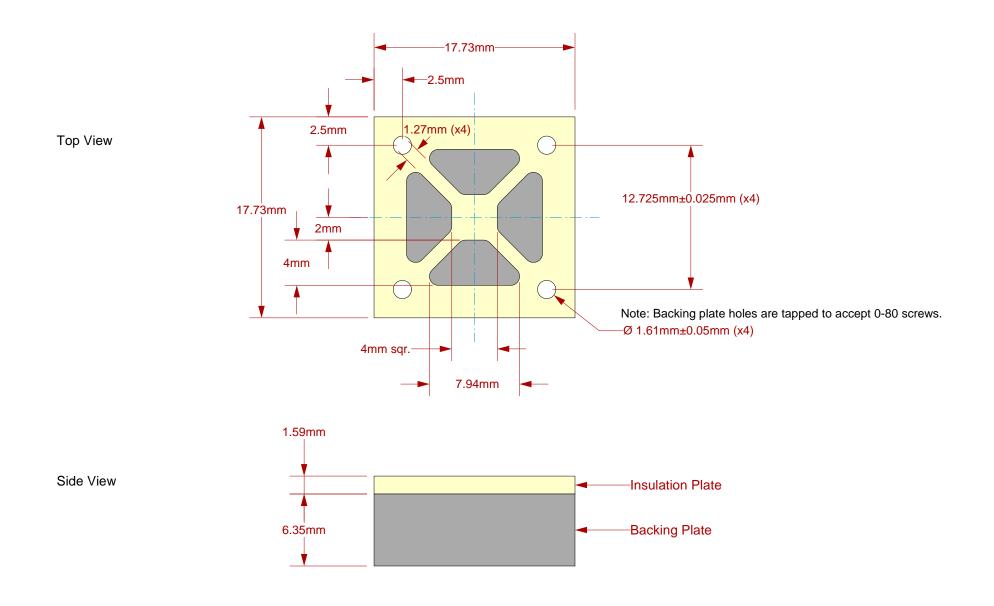
Bottom View

- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- Parallelism measurement shall exclude any effect of mark on top surface of package.

DIM	MIN	MAX		
Α		1.35		
A1	0.15	0.25		
b		0.35		
D	6.0	BSC		
Е	6.0	BSC		
е	0.5 BSC			

10 x 10 array

SG-BGA-7051 Drawing		Status: Released	Scale: 1:0.2		Rev: C
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	\ <i>'</i>	File: SG-BGA-7051 Dwg		Modified: 07/16/14, DH	



Description: Insulation Plate and Backing Plate

SG-BGA-7051 Drawing		Status: Released	Scale:	: 3:1	Rev: C
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	` ,	File: SG-BGA-7051 Dwg		Modified: 07/16/14, DH	

All dimensions are in mm. All tolerences are +/- 0.125mm. (Unless stated otherwise)