Top View

Assembled

8.25mm + IC thickness

Side View (Section AA)

GHz BGA Socket - Direct mount, solderless

Features

Recommended torque = 1.5 in lbs./

Customer's Target PCB

- Directly mounts to target PCB (needs tooling holes) with hardware.
- High speed, reliable Elastomer connection
- Minimum real estate required

24 in oz.

- 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 rubber (63.5 degree angle).





Elastomer Guide: Non-clad FR4. Thickness = 0.475mm.



Ball Guide: Kapton polyimide.



Socket base screw: Socket head cap, alloy steel with black oxide finish, 0-80 fine thread, 15.875mm long.



Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.



Insulation Plate: FR4/G10, Thickness = 1.59mm.



Backing Plate: Black anodized Aluminum.



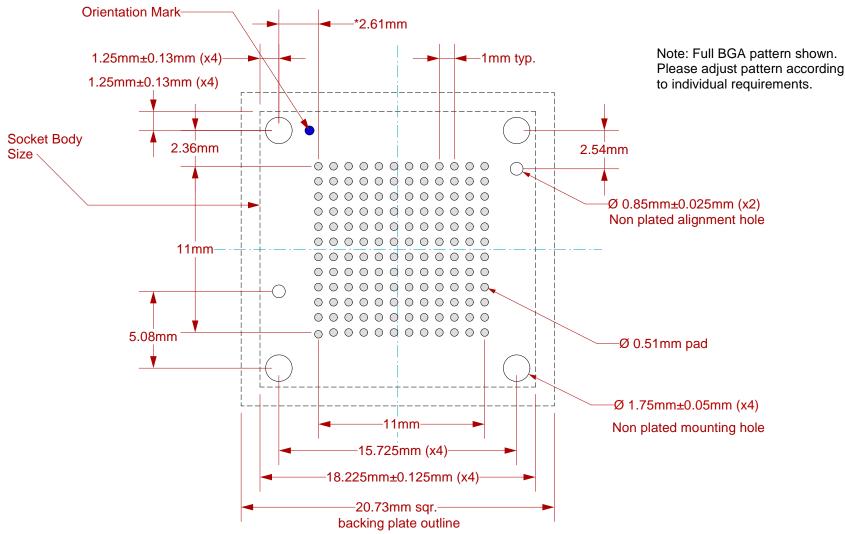
Thickness = 6.35mm.

	SG-BGA-8005 Drawing	Status: Released	Scale:	-	Rev: B	
•	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Suite 400, Burnsville MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: J. Glab		Date: 7/30/07		
		File: SG-BGA-8005 Dwg		Modified: 6/12/09, AE		

Customer's

BGAIC

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



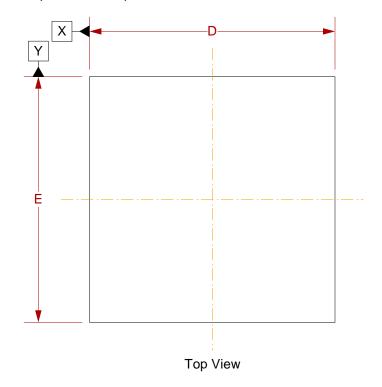
Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish

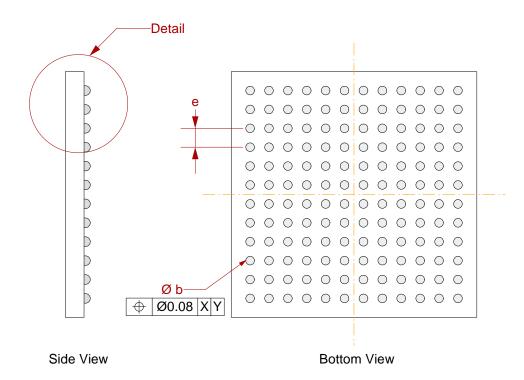
PCB Pad height: Same or higher than solder mask

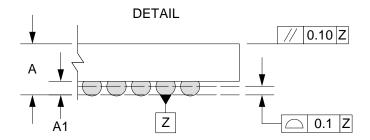
All dimensions are in mm unless stated otherwise Recommended PCB Layout Tolerances: ±0.025mm [±0.001"] unless stated otherwise.

SG-BGA-8005 Drawing	Status: Released Scale:		-	Rev: B
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Tele: (952) 229-8200 www.ironwoodelectronics.com	File: SG-BGA-8005 Dwg		Modified: 6/12/09, AE	

Compatible BGA Spec







- 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.

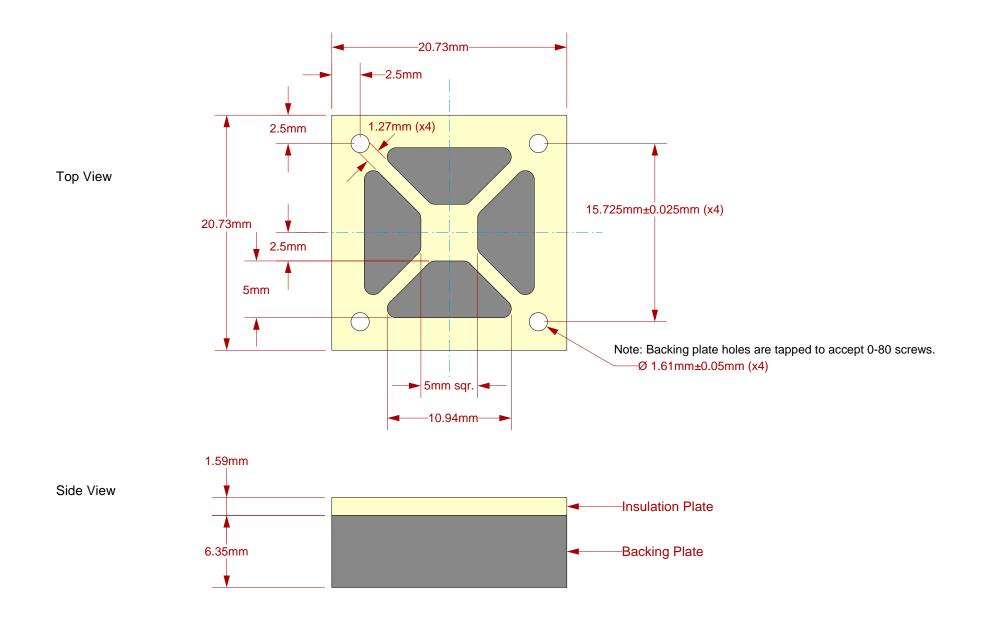
Parallelism measurement shall exclude any effect of mark on top surface of package.

DIM MIN		MAX		
Α	1.3	1.5		
A1	0.31	0.41		
b		0.51		
D	13.0 BSC			
Е	13.0 BSC			
е	1 BSC			

12 x 12 array

All dimensions are in mm unless stated otherwise

SG-BGA-8005 Drawing	GA-8005 Drawing Status: Released Scal		: -	Rev: B
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Description: Insulation Plate and Backing Plate

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	File: SG-BGA-8005 Dwg		Modified: 6/12/09, AE	

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