

GHz BGA Socket - Direct mount, solderless

Features

-Recommended torque = 1.1 in lbs./

- 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

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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).

Thickness = 0.5mm.



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, 9.525mm long.



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



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



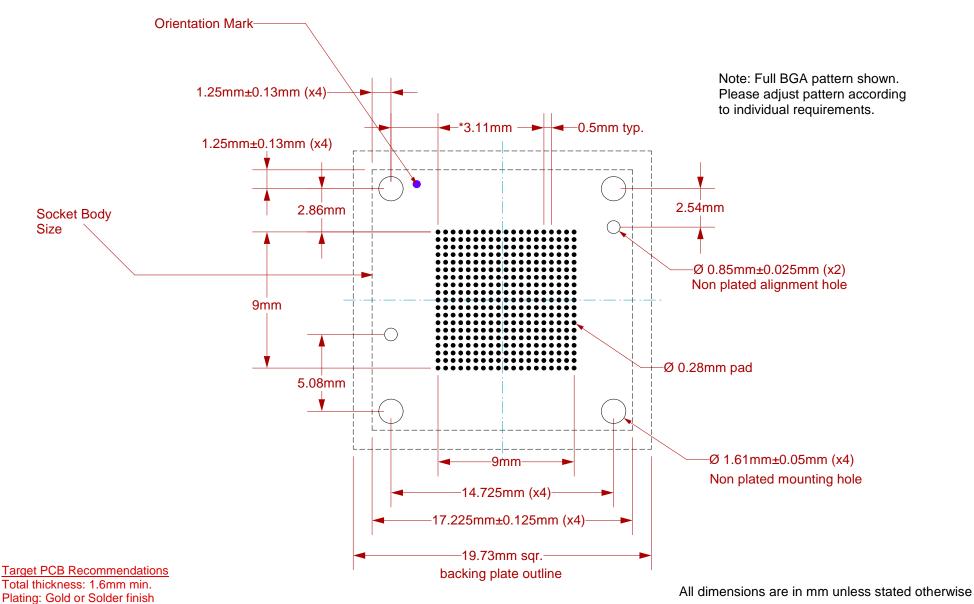
Backing Plate: Black anodized Aluminum.

Thickness = 6.35mm.

Assembled 8.25mm + IC thickness	18 in oz.
Side View (Section AA)	Customer's Target PCB

SG-BGA-7032 Drawing		Status: Released	Scale:	-	Rev: B
© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: H. Hansen		Date: 1/24/05		
	` '	File: SG-BGA-7032 Dwg		Modified: 6/12/09, AE	

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



PCB Pad height: Same or higher than solder mask

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

SG-BGA-7032 Drawing

Status: Released

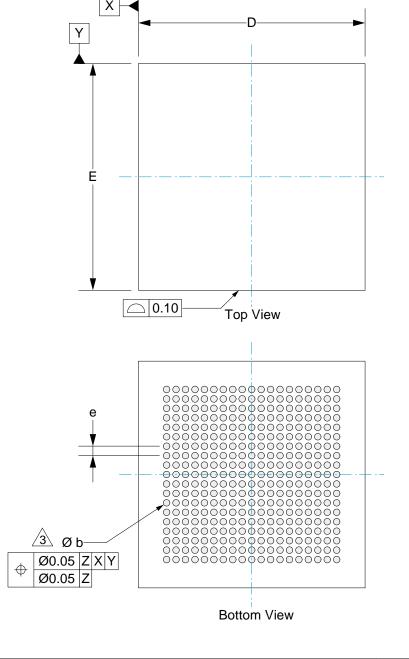
Scale: 4:1

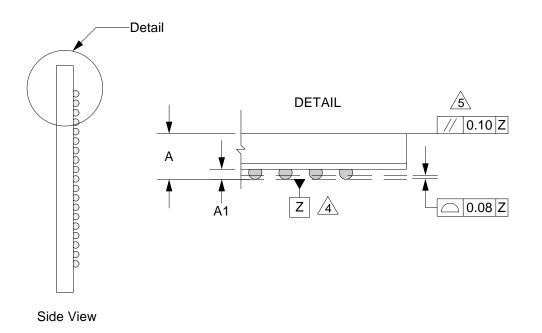
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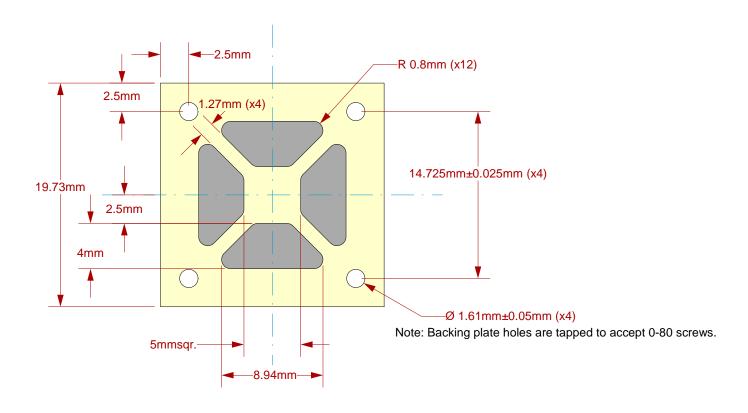


- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- Parallelism measurement shall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

DIM	MIN	MAX	
Α		1.2	
A1	0.2	0.3	
b		0.35	
D	12.0 BSC		
Е	12.0 BSC		
е	0.5 BSC		

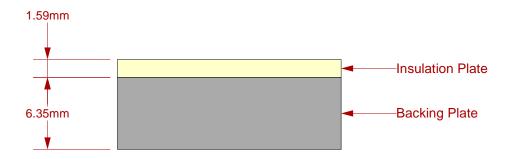
19 X 19 array

SG-BGA-7032 Drawing	Status: Released	Scale:	1:0.2	Rev: B
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Side View

Top View



Description: Insulation Plate and Backing Plate

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