

GHz BGA Socket - Direct mount, solderless

Features

Recommended torque = 14 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
- Ball guide prevents over compression of elastomer
- 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: 40 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.75mm.



Elastomer Guide: Cirlex or equivalent. Thickness = 0.75mm.



Ball Guide: Kapton polyimide.



Socket base screw: Socket head cap, alloy steel with black oxide finish, 0-80 fine thread, 12.7mm long.



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



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

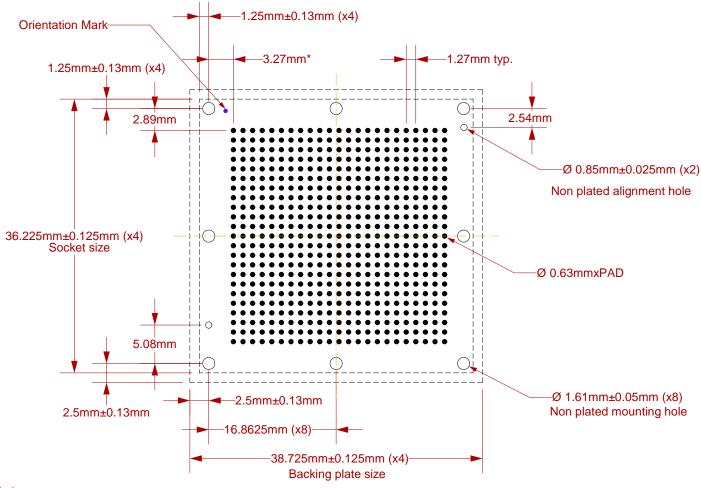


Backing Plate: Black anodized Aluminum. Thickness = 6.35mm.

Assembled	224 in oz
9.98mm +	
IC thickness	
	8 7
1	
Side View	10
(Section AA)	Customer's BGA IC Customer's Target PCB

SG-BGA-6045 Drawing	Status: Released	Scale: -		Rev: E
© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337	Drawing: H. Hansen		Date: 3/29/02	
Tele: (952) 229-8200 www.ironwoodelectronics.com	File: SG-BGA-6045 Dwg		Modified: 7/16/09, AE	

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



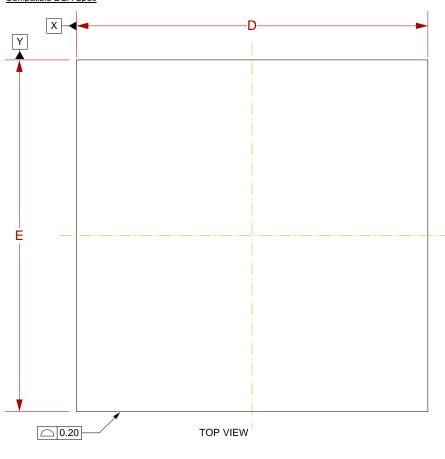
Target PCB Recommendations
Total thickness: 2.4mm min.
Plating: Gold or Solder finish

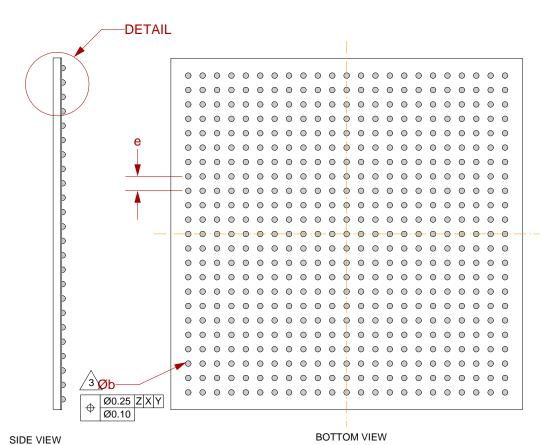
PCB Pad height: Same or higher than solder mask

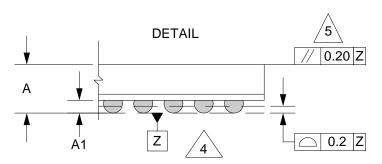
NOTE: Steel backing plate may be required based on end user's application

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

SG-BGA-6045 Drawing	Status: Released	Scale	: 2:1	Rev: E
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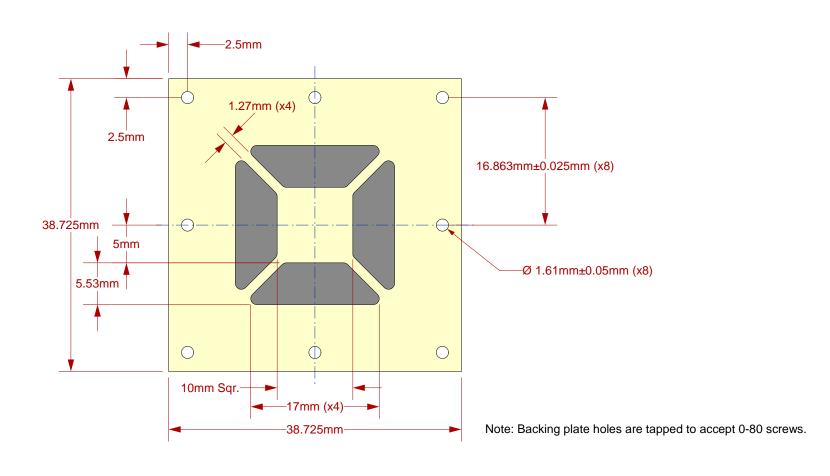


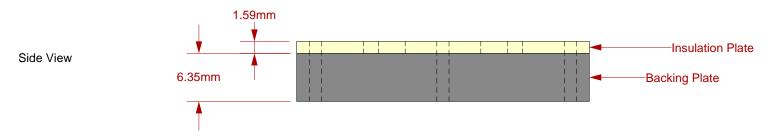
- 1. Dimensions are in millimeters.
- Interpret dimensions and tolerances per ASME Y14.5M-1994.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- Parallelism measurement shall exclude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

DIM	MIN	MAX		
Α		2.65		
A1	0.35	0.55		
b		0.90		
D	31.00 BSC			
E	31.00 BSC			
е	1.27 BSC			

Array 23x23

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Description: Insulation Plate and Backing Plate

Top View

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