

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
- 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.



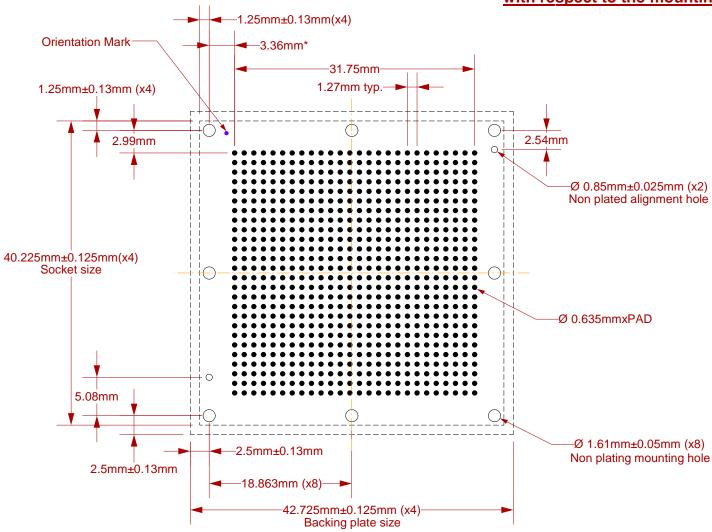
IC Frame: Ultem 1000.

_		Recommended torque = 16 in-lbs
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Assembled		
8.25mm +		
IC thickness		2
		8 4
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1		N. Carlotte
Side View		• •
(Section AA)		40
(0000011701)		
	6 Customer's	
		Customer's Target PCB
	BGA IC	ŭ

SG-BGA-6164 Drawing		Status: Released	Scale: -		Rev: B
© 2009 IRONWOOD ELECTRONICS, INC. Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: H. Hansen		Date: 11/18/05		
	· /	File: SG-BGA-6164 Dwg		Modified: 6/15/09, AE	

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

*Note: BGA pattern is not symmetrical with respect to the mounting holes.



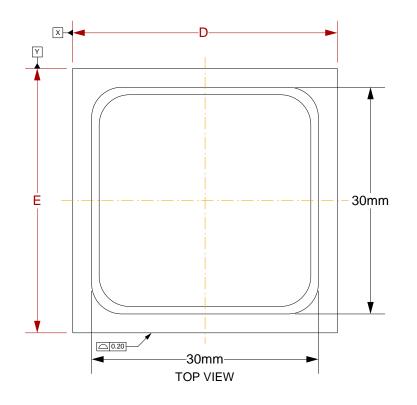
Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish

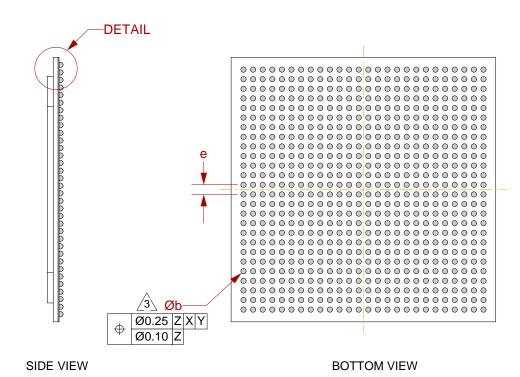
PCB Pad height: Same or higher than solder mask

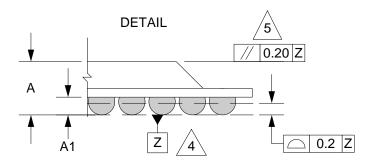
NOTE: Steel backing plate may be required based on end user's application

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

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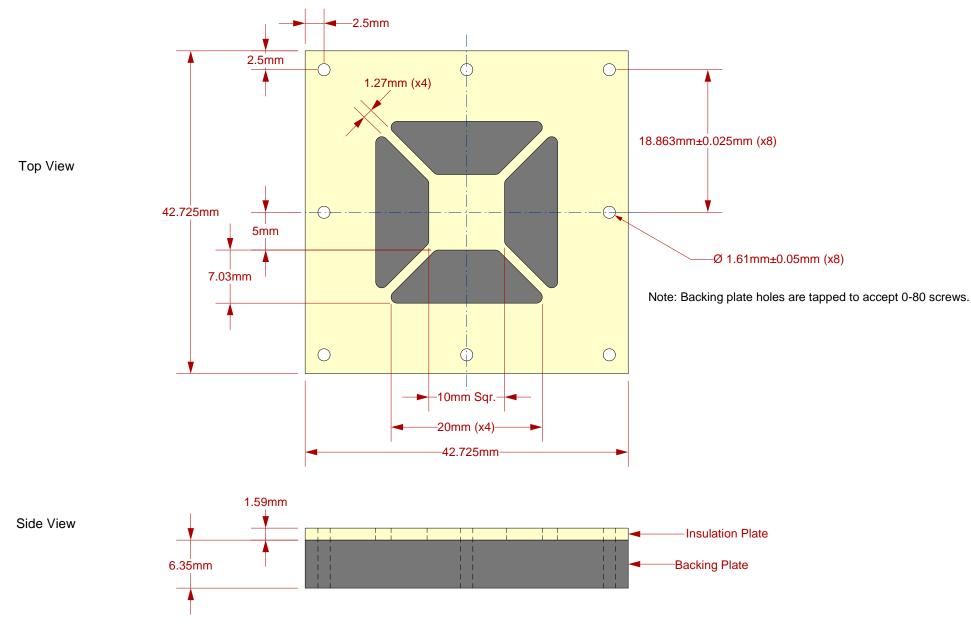


- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and toleraces per ASME Y14.5M-1994.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plame Z.
- Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- Parallelism measurement shall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

DIM	MIN	MAX			
Α		2.53			
A1	0.5	0.7			
b		0.90			
D	35.0 BSC				
Е	35.0 BSC				
е	1.27 BSC				

Array 26x26

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Description: Insulation Plate and Backing Plate

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