

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

Recommended torque = 1 in lbs.

 $\sqrt{1}$

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: Black 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: Non-clad FR4. Thickness = 0.725mm.



Ball Guide: Kapton polyimide.



Socket base screw: Socket head cap, alloy steel with black oxide finish, 0-80 fine thread, 9.525mm long.



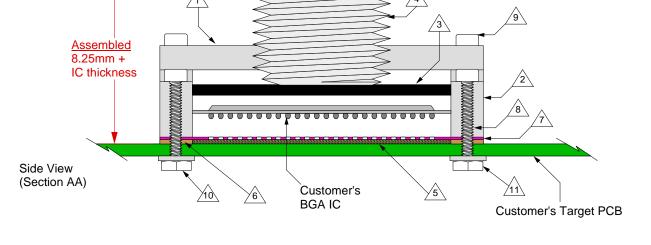
Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.



Socket base nut: 18-8 Stainless steel, 0-80 fine thread.

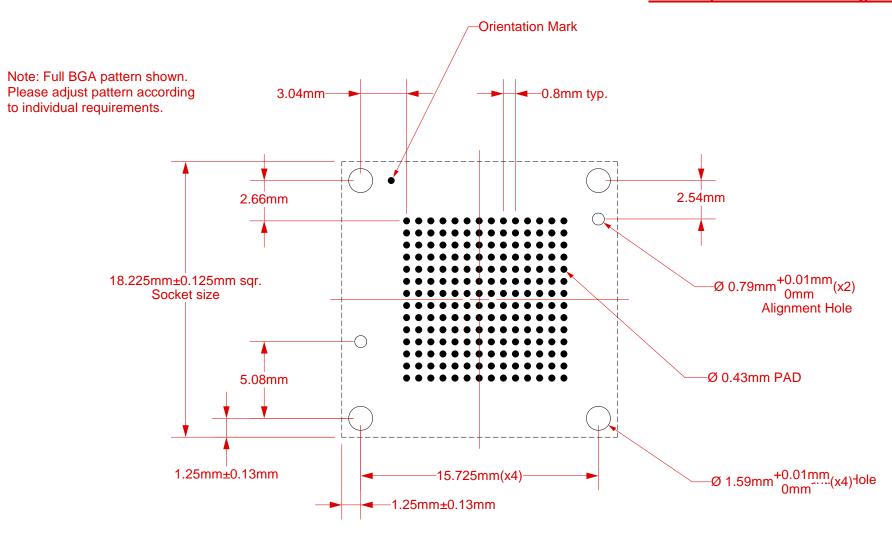


Nylon washer: 1.73mm ID; 4.78mm OD 0.64mm thickness.



SG-BGA-6029 Drawing	Status: Released	Scale: -		Rev: D	
© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: W. Watson		Date: 12/12/01		
	File: SG-BGA-6029 Dwg.mcd		Modified: 6/12/09, 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

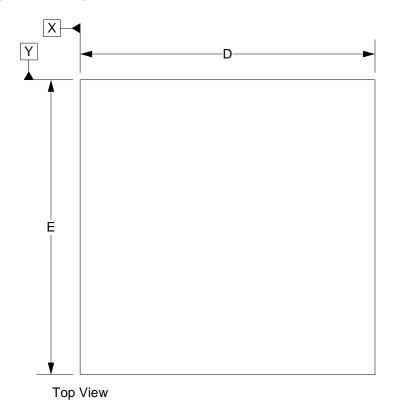
PCB Pad height: Same or higher than solder mask

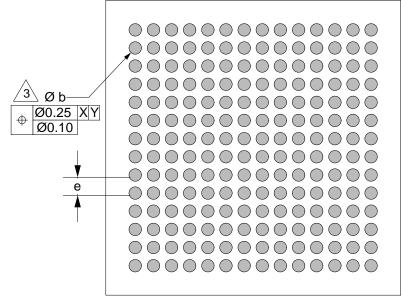
NOTE: Steel backing plate may be required based on end user's application

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

SG-BGA-6029 Drawing	Status: Released	Scale:	4:1	Rev: D
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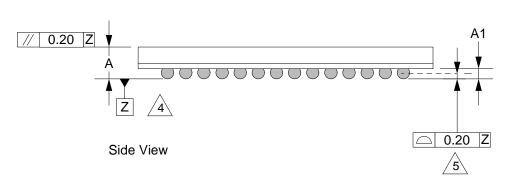
Compatible BGA Spec.





Bottom View

Array:14x14



- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and toleraces per ASME Y14.5M-1994.
- 3

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.

MIN	MAX			
	1.4			
0.35	0.45			
	0.55			
13.0 BSC				
13.0 BSC				
0.8 BSC				
	0.35 13.0 13.0			

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