

Side View

(Section AA)

**Assembled** 

IC thickness

8.25mm +

## GHz BGA Socket - Direct mount, solderless

## **Features**

Customer's Target PCB

- 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

Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.



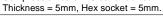
Socket base: Black anodized Aluminum. Thickness = 5mm.



Compression Plate: Black anodized Aluminum. Thickness = 2.5mm.



Compression screw: Clear anodized Aluminum.





Elastomer: 40 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 = 0.5mm.



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





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



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

SG-BGA-8010 Drawing		Status: Released	Scale: -		Rev: B	
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Suite 400, Burnsville MN 55337	Drawing: J. Glab	Drawing: J. Glab		Date: 6/7/07	
	Tele: (952) 229-8200	File: SG-BGA-6010 Dwg.mcd		Modified: 7/6/09, AE		

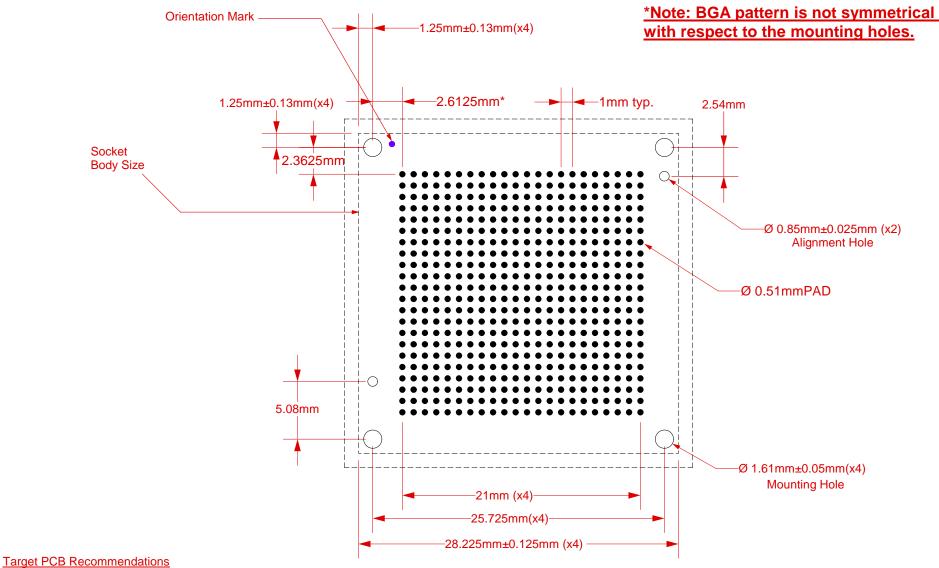
<del>√</del>5\

Customer's

**BGAIC** 

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



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

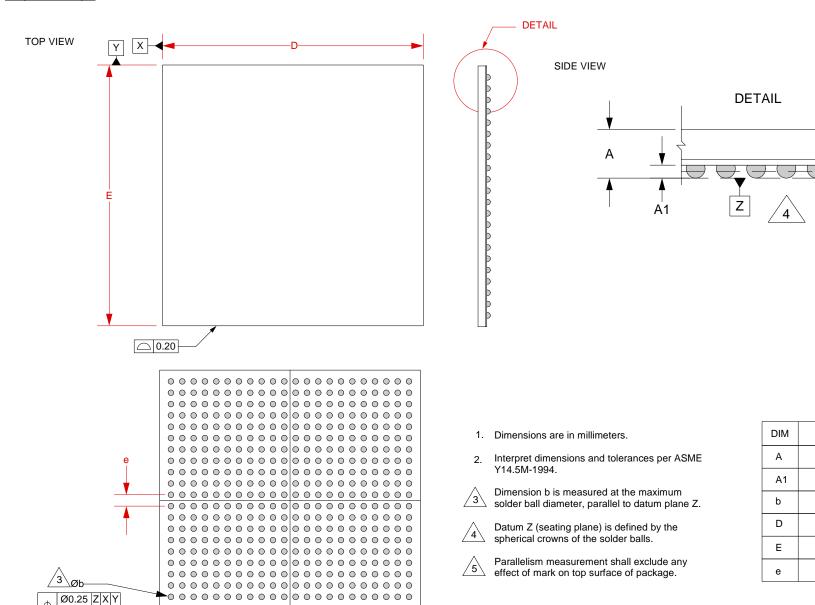
PCB Pad height: Same or higher than solder mask

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

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

SG-BGA-8010 Drawing	Status: Released	Scale:	-	Rev: B
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Ø0.10



Array 2	22x22
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23.00 BSC

23.00 BSC

1.0 BSC

MIN

0.4

0.20 Z

0.2 Z

MAX

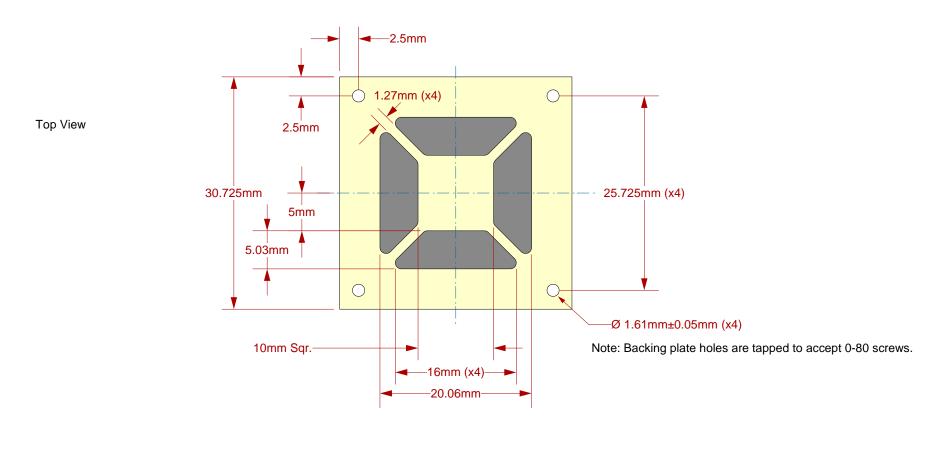
2.5

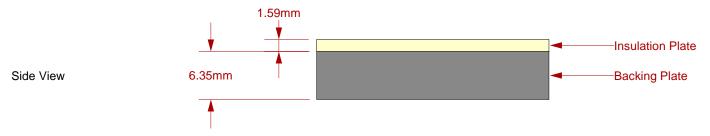
0.6

0.70

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BOTTOM VIEW





SG-BGA-8010 Drawing		Status: Released	Scale: -		Rev: B
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		File: SG-BGA-6010 Dwg.mcd		Modified: 7/6/09, AE	