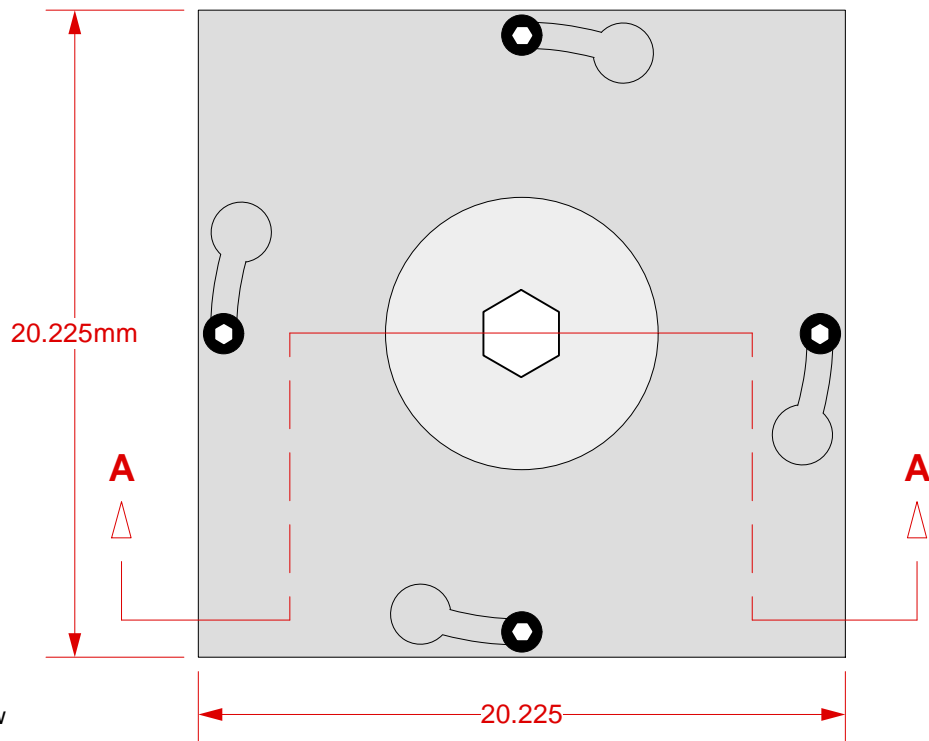


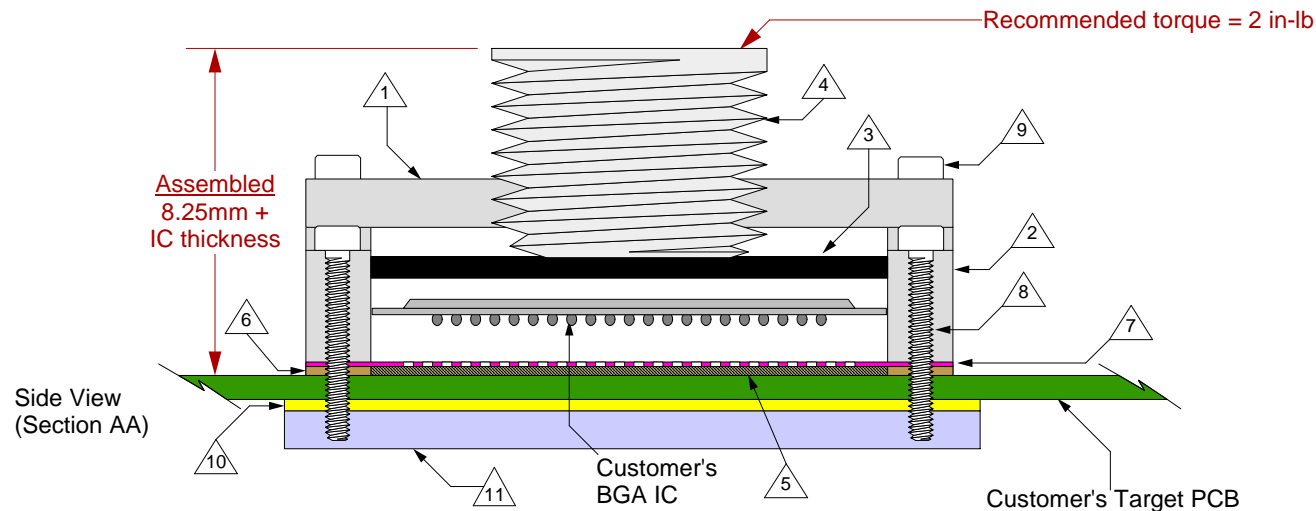
GHz BGA Socket - Direct mount, solderless

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



Top View



Side View
(Section AA)

- △ 1 Socket Lid: Black anodized Aluminum.
Thickness = 2.5mm.

- △ 2 Socket base: Black anodized Aluminum.
Thickness = 5mm.

- △ 3 Compression Plate: Black anodized Aluminum.
Thickness = 2.5mm.

- △ 4 Compression screw: Clear anodized Aluminum.
Thickness = 5mm, Hex socket = 5mm.

- △ 5 Elastomer: 20 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle).
Thickness = 0.5mm.

- △ 6 Elastomer Guide: Non-clad FR4.
Thickness = 0.475mm.


- △ 7 Ball Guide: Kapton polyimide.

- △ 8 Socket base screw: Socket head cap, alloy steel with black oxide finish, 0-80 fine thread, 15.875mm long.

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

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

- △ 11 Backing Plate: Black anodized Aluminum.
Thickness = 6.35mm.

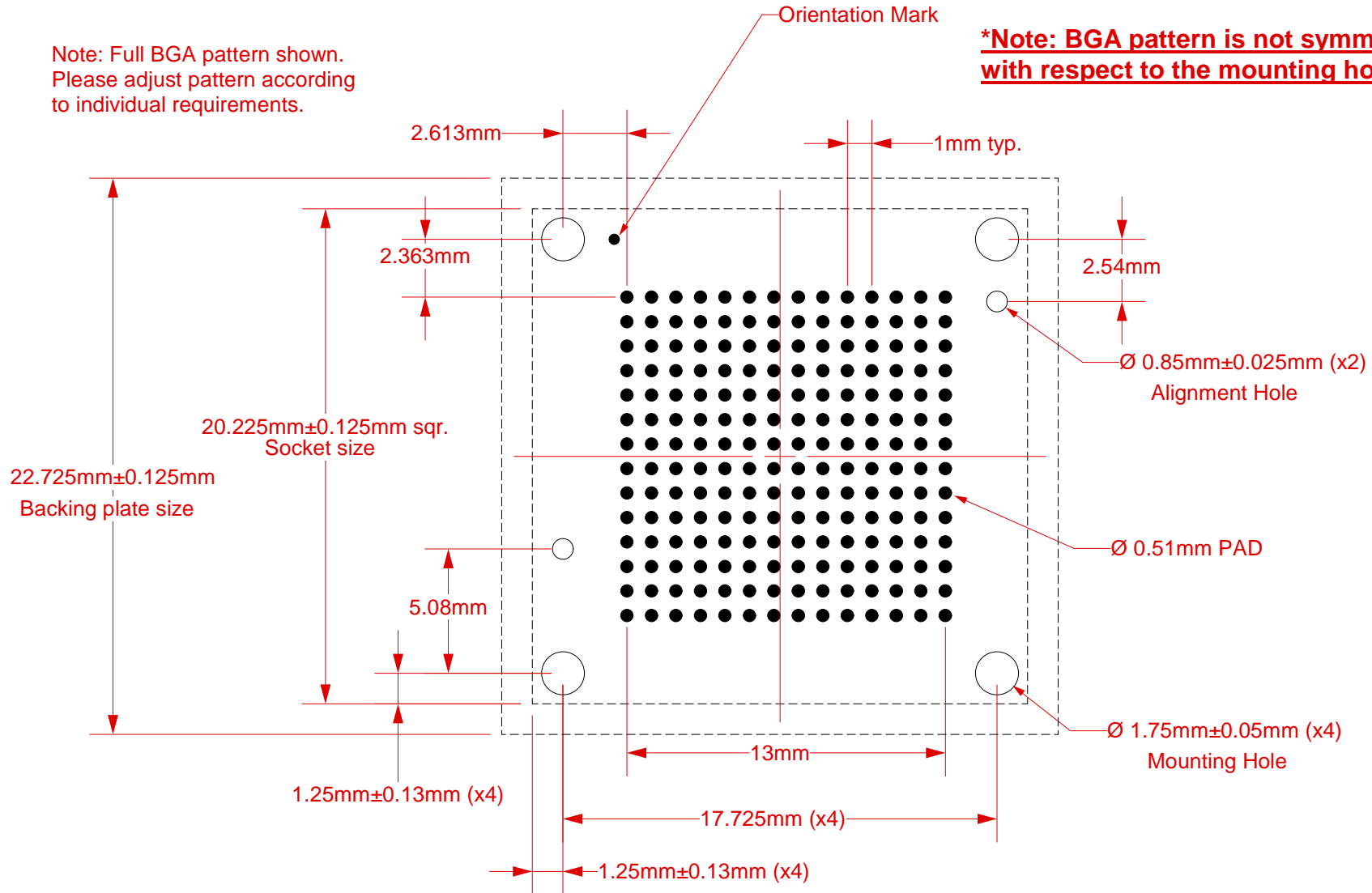
	SG-BGA-8006 Drawing	Status: Released	Scale: -	Rev: B
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Suite 400, Burnsville MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: J. Glab	Date: 07/30/07	
		File: SG-BGA-8006 Dwg.mcd	Modified: 7/2/09, AE	

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

Recommended PCB Layout
Top View

Note: Full BGA pattern shown.
Please adjust pattern according to individual requirements.

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




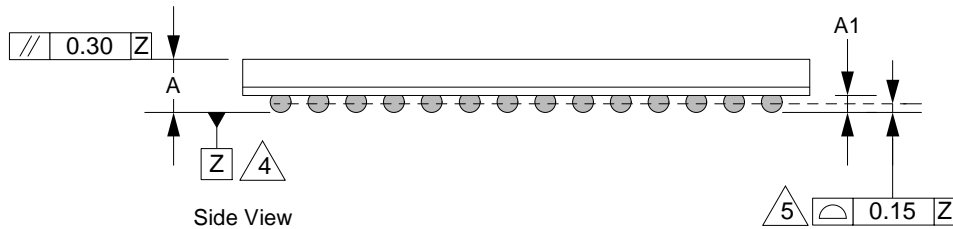
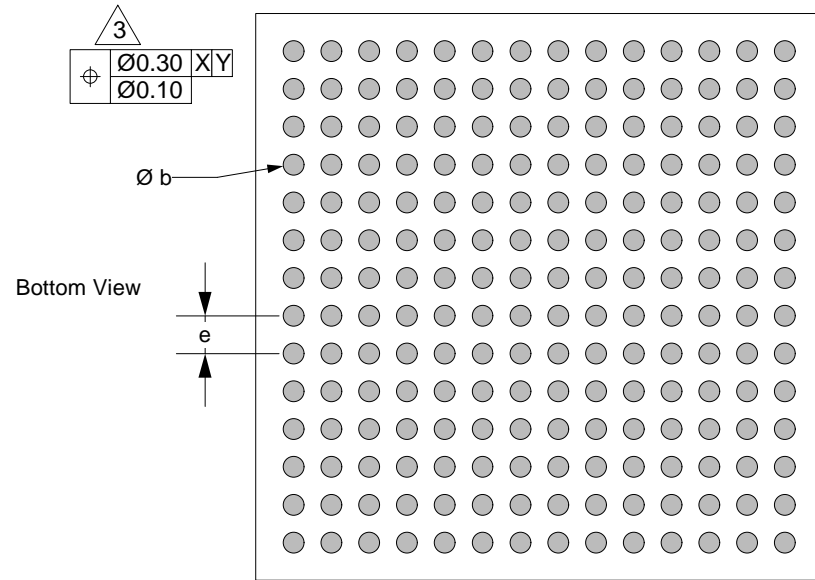
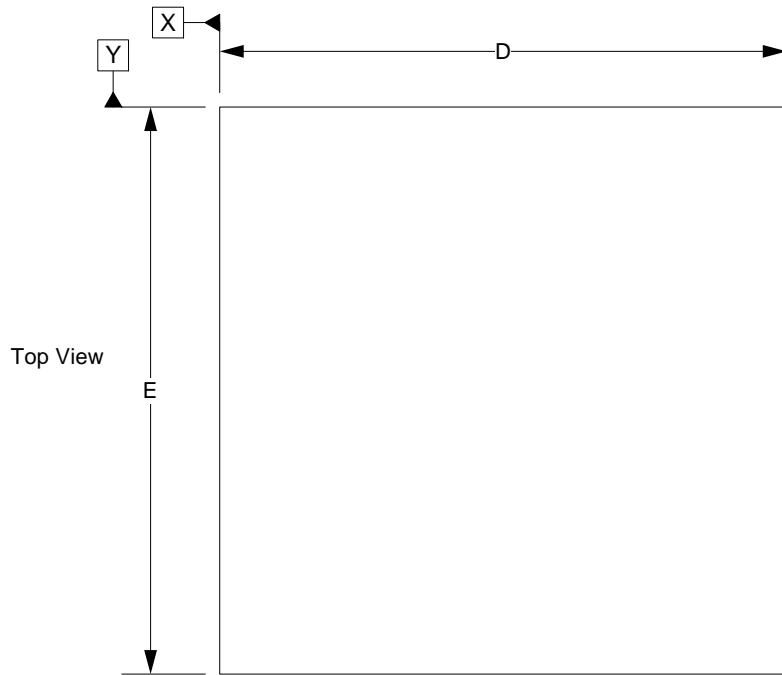
Target PCB Recommendations

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: $\pm 0.025\text{mm}$ [$\pm 0.001''$] unless stated otherwise.

	SG-BGA-8006 Drawing	Status: Released	Scale: -	Rev: B
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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.

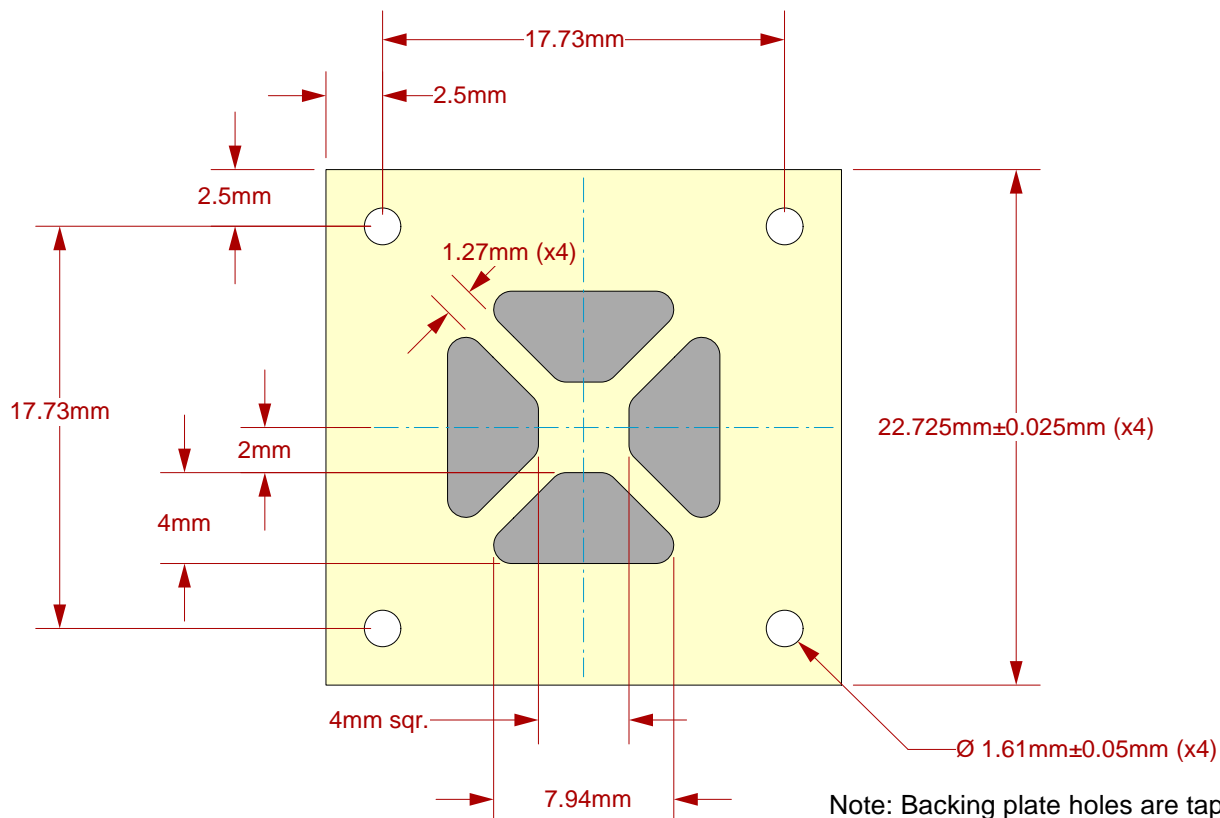
DIM	MIN	MAX
A	1.32	1.75
A1	0.27	0.47
b	0.35	0.65
D	15.0 BSC	
E	15.0 BSC	
e	1.0 BSC	

Array:14x14

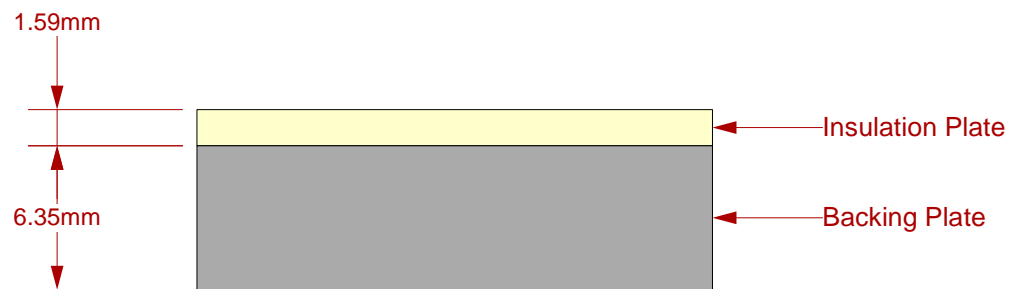
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Backing Plate


Top View



Front View



Note: Backing plate holes are tapped to accept 0-80 screws.

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		File: SG-BGA-8006 Dwg.mcd	Modified: 7/2/09, AE	