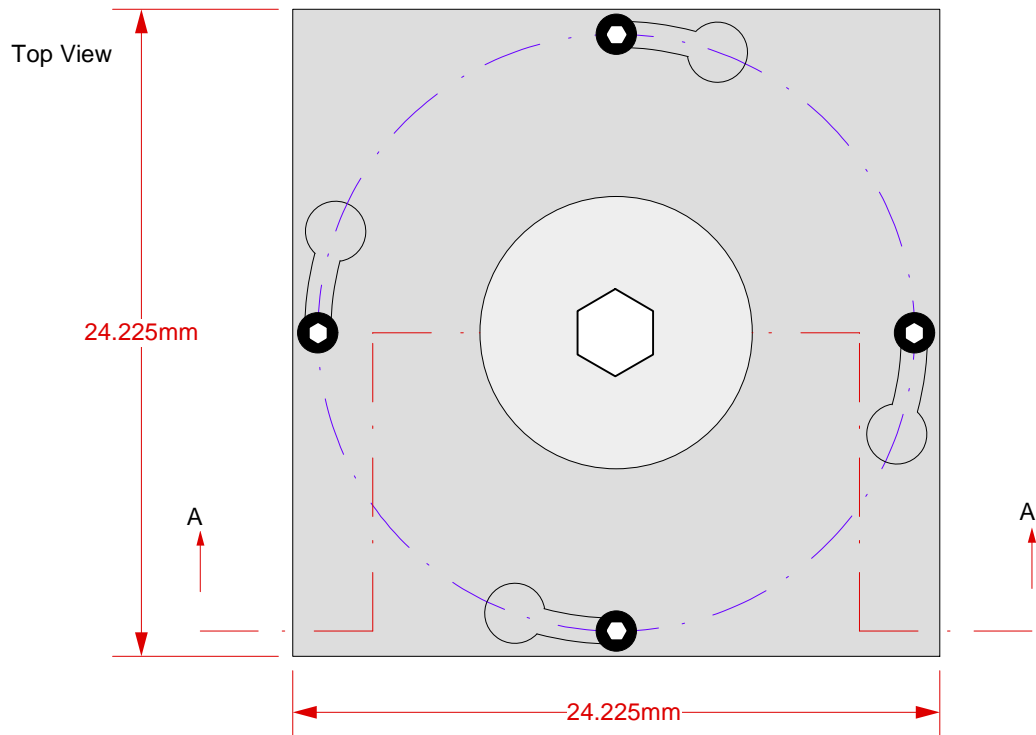
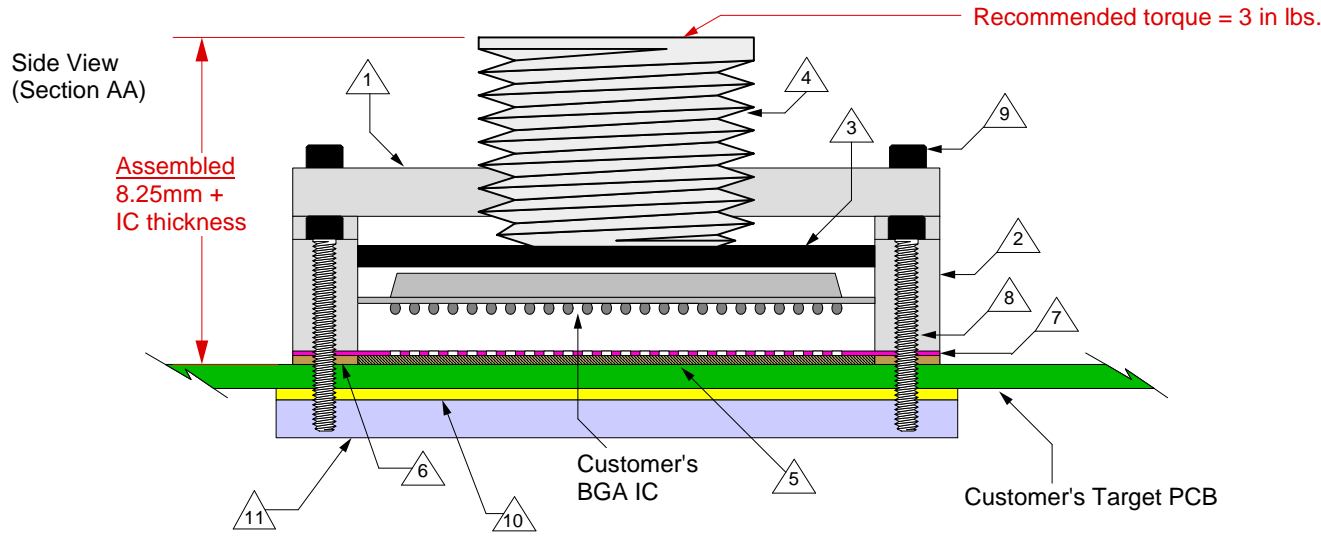


GHz BGA Socket - Direct mount, solderless




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

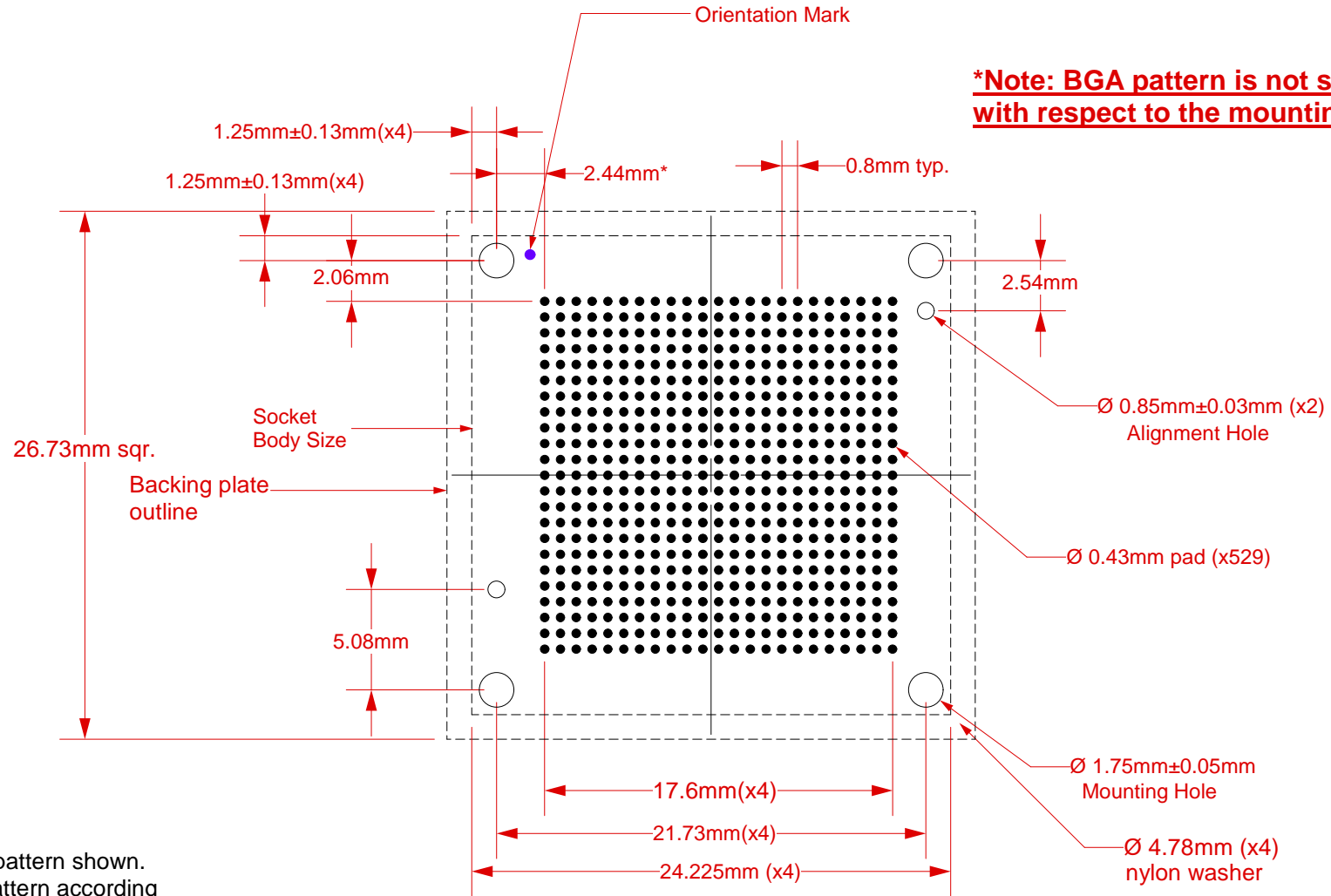


- 1 Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.
- 2 Socket base: Black anodized Aluminum. Thickness = 6.5mm.
- 3 Compression Plate: Black anodized Aluminum. Thickness = 2.5mm.
- 4 Compression screw: Clear anodized Aluminum. Thickness = 5mm, Hex socket = 5mm.
- 5 Elastomer: 40 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.75mm.
- 6 Elastomer Guide: Non-clad FR4. Thickness = 0.725mm.
- 7 Ball Guide: Kapton polyimide.
- 8 Socket base screw: Socket head cap, alloy steel with black oxide finish, 0-80 fine thread, 12.7mm long.
- 9 Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.
- 10 Insulation Plate: FR4/G10, 1.59mm thick.
- 11 Backing Plate: Anodized Aluminum 6.35mm thick.

	SG-BGA-6220 Drawing		Status: Released	Scale: -	Rev: B
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Suite 400, Burnsville MN 55337 Tel: (952) 229-8200 www.ironwoodelectronics.com		Drawing: J. Glab	Date: 3/14/07	
			File: SG-BGA-6220 Dwg.mcd	Modified: 7/20/09, AE	

All tolerances: ±0.125mm (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.

Target PCB Recommendations


Total thickness: 1.6mm min.

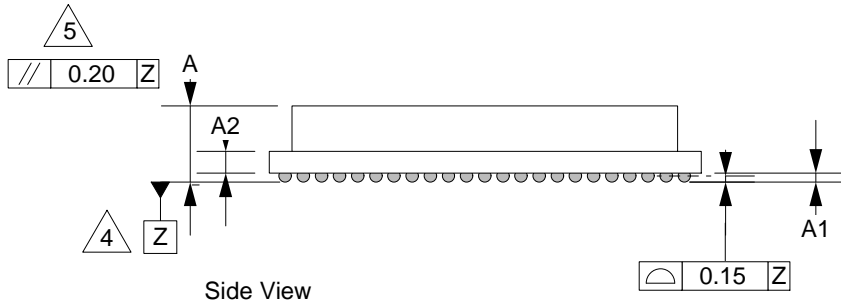
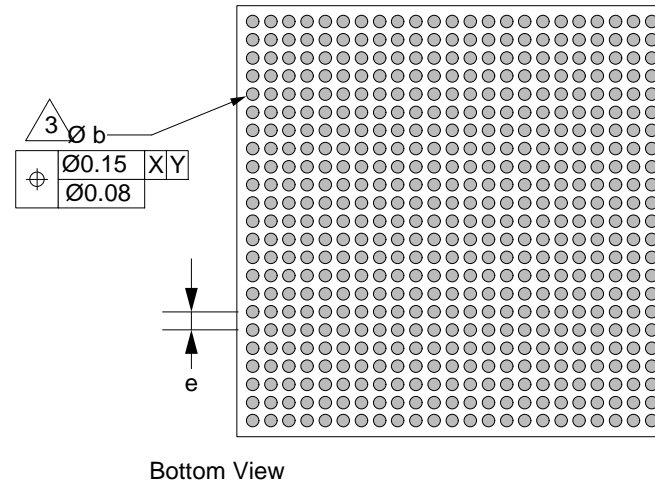
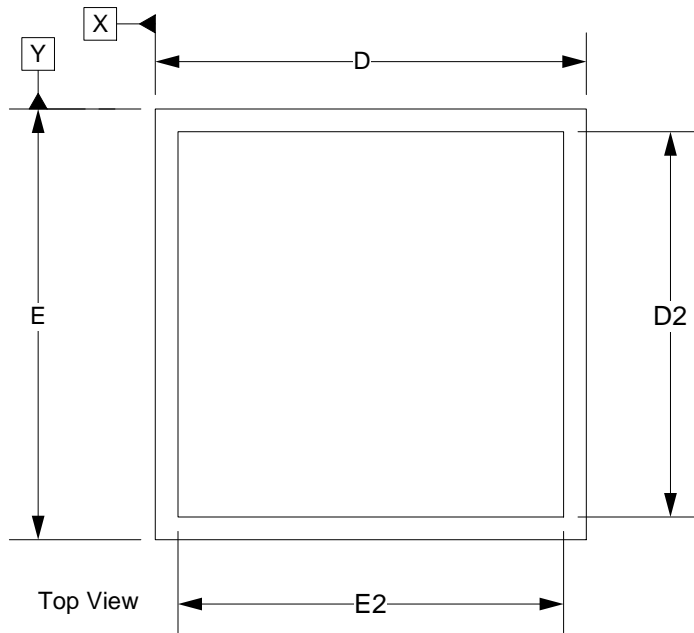
Plating: Gold or Solder finish

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.

	SG-BGA-6220 Drawing		Status: Released	Scale: 3:1	Rev: B
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1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.

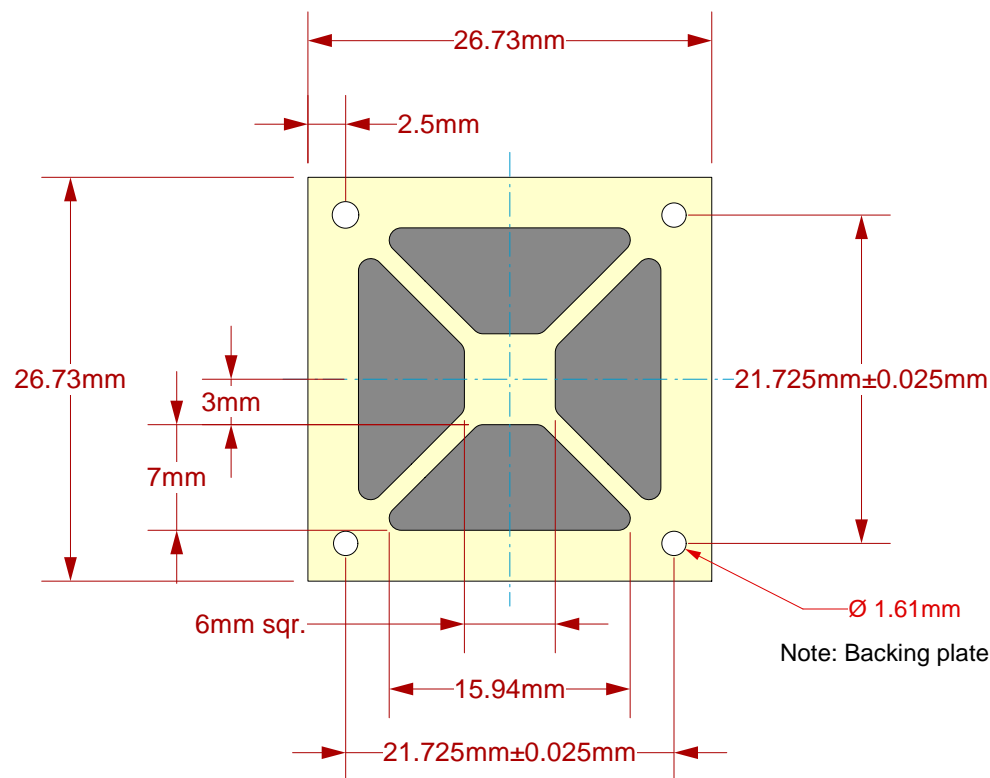
- △ 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- △ 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- △ 5 Parallelism measurement shall exclude any effect of mark on top surface of package.

DIM	MIN	MAX
A		3.5
A1	0.35	0.45
A2	1.09	
b	0.45	0.55
D	18.9	19.1
D2	16.9	17.1
E	18.1	19.1
E2	16.9	17.1
e	0.8 BSC	

Array: 23 X 23

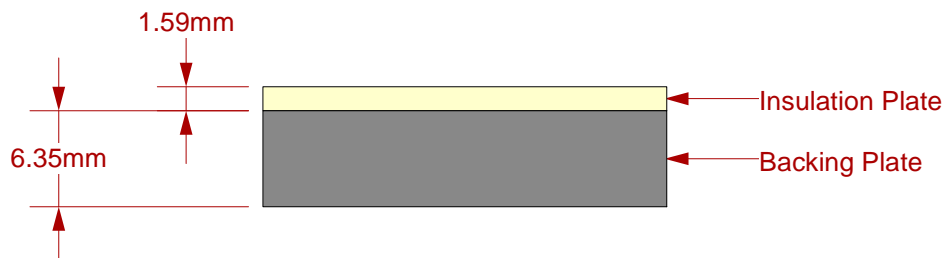
 <p>© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Suite 400, Burnsville MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	<p>SG-BGA-6220 Drawing</p>	<p>Status: Released</p>	<p>Scale: -</p>	<p>Rev: B</p>
	<p>Drawing: J. Glab</p>		<p>Date: 3/14/07</p>	
	<p>File: SG-BGA-6220 Dwg.mcd</p>		<p>Modified: 7/20/09, AE</p>	

Top View




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

Side View



Description: Backing Plate with Insulation Plate

	SG-BGA-6220 Drawing	Status: Released	Scale: -	Rev: B
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		File: SG-BGA-6220 Dwg.mcd	Modified: 7/20/09, AE	

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