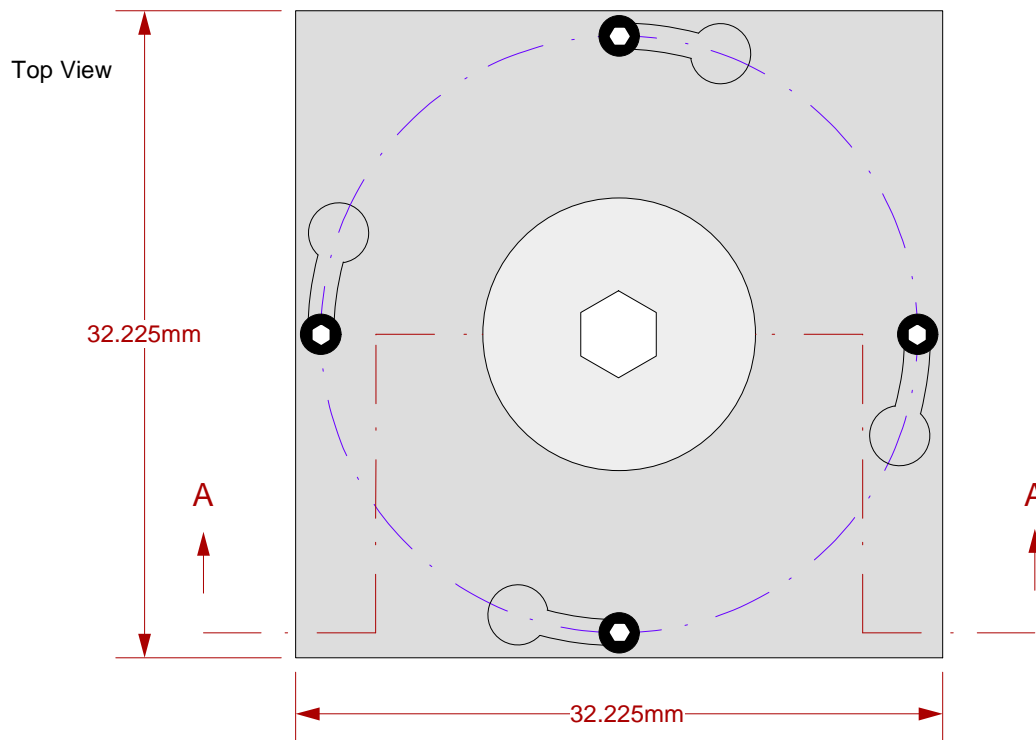
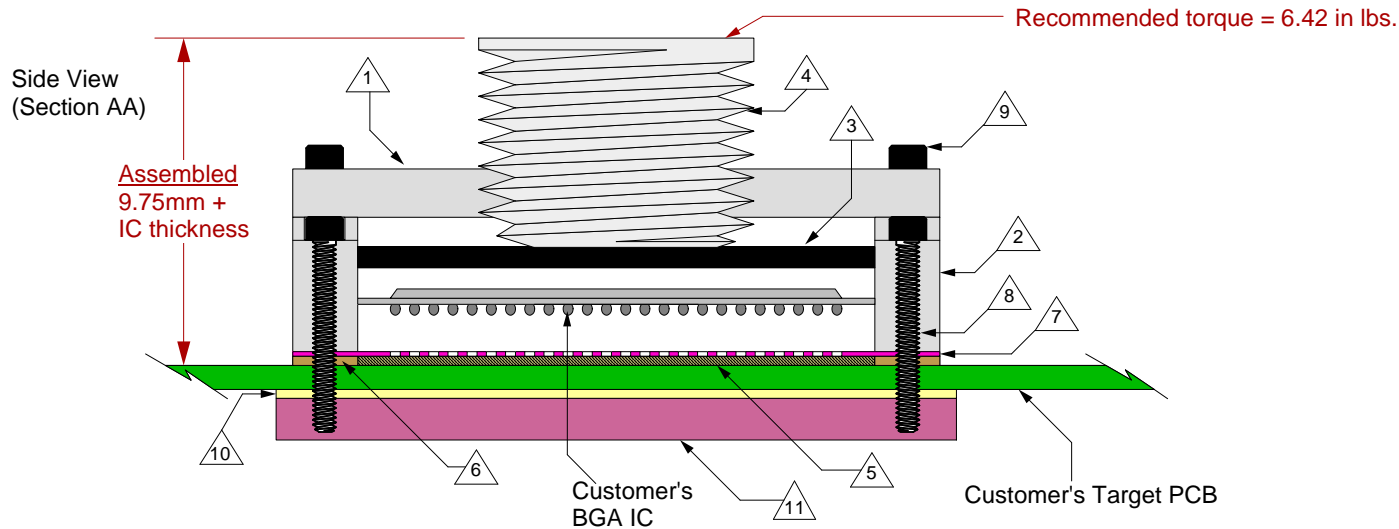


GHz BGA Socket - Direct mount, solderless



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: Black 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: Fillister head, 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, 1.59mm thick.
- △ 11 Backing Plate: Anodized Aluminum 6.35mm thick.

SG-BGA-6208 Drawing

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11351 Rupp Drive, Suite 400, Burnsville, MN 55337
Tele: (952) 229-8200
www.ironwoodelectronics.com

Status: Released

Scale: -

Rev: B

Drawing: J. Glab

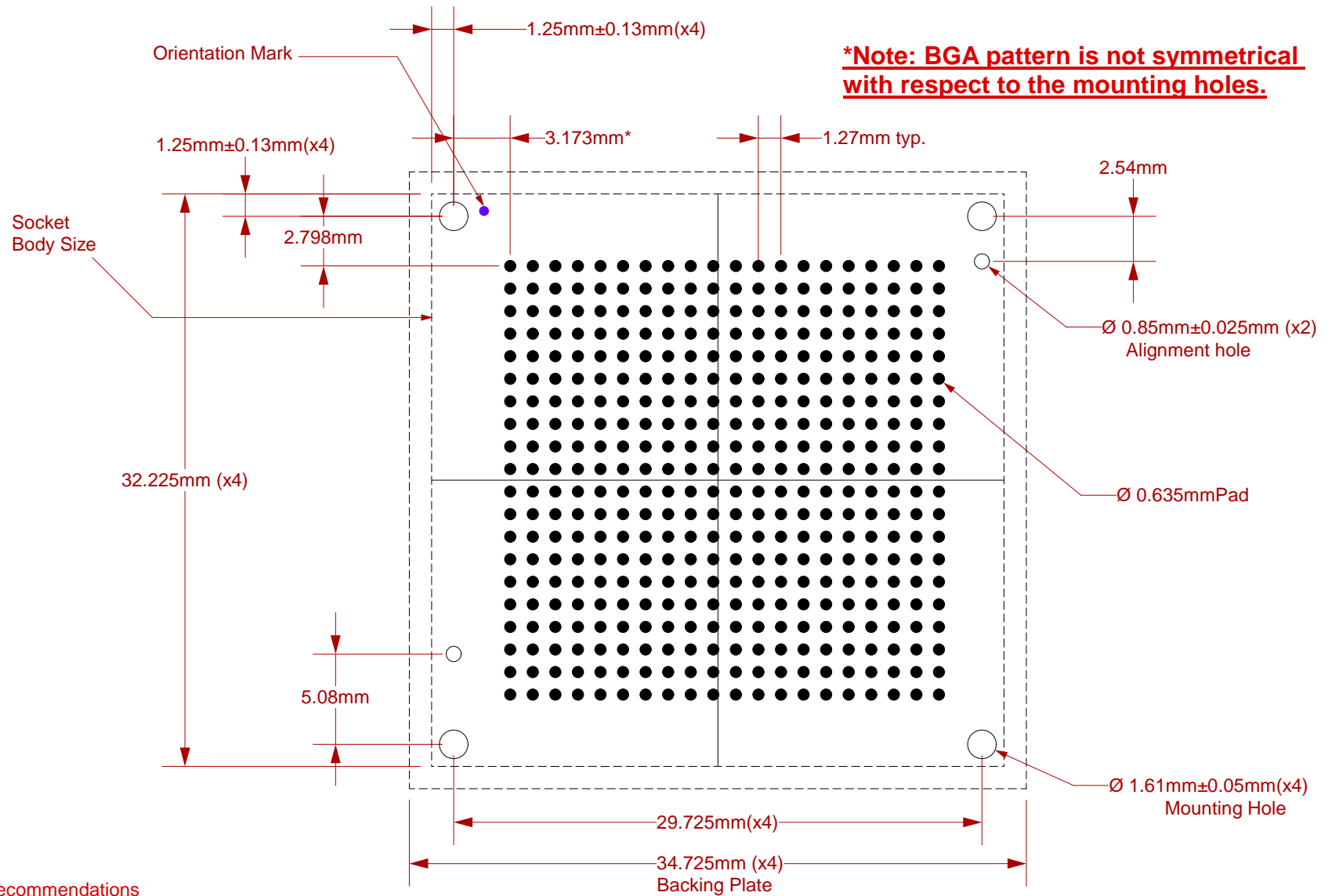
Date: 10/30/06

File: SG-BGA-6208 Dwg

Modified: 7/21/09, AE

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

Recommended PCB Layout
Top View




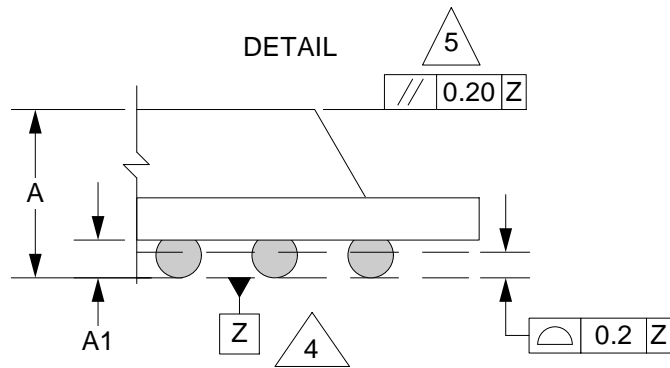
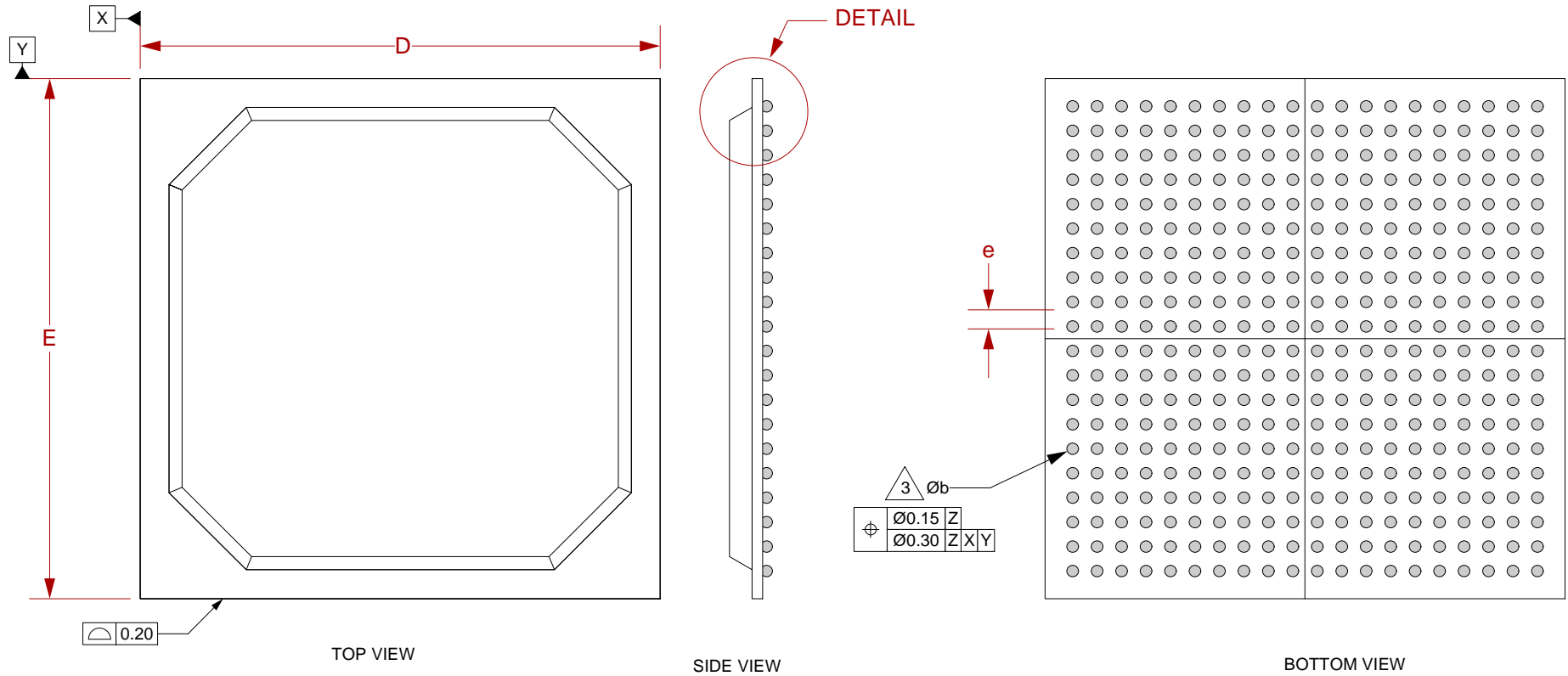
Target PCB Recommendations

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.


 <p>© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	<p>SG-BGA-6208 Drawing</p>		Status: Released	Scale: 3:1	Rev: B
	<p>Drawing: J. Glab</p>		<p>Date: 10/30/06</p>		
	<p>File: SG-BGA-6208 Dwg</p>		<p>Modified: 7/21/09, AE</p>		



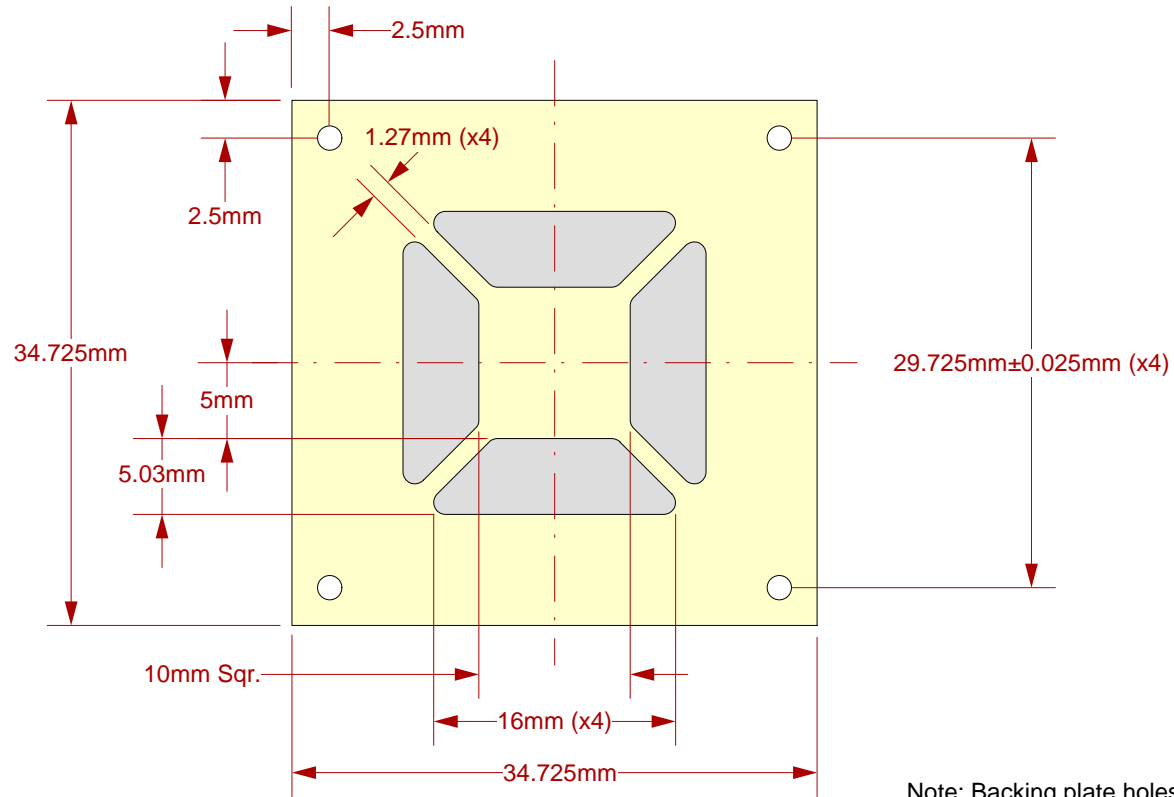
- 1 Dimensions are in millimeters.
- 2 Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 5 Parallelism measurement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

DIM	MIN	MAX
A		2.6
A1	0.35	0.5
b		0.9
D	27.00 BSC	
E	27.00 BSC	
e	1.27 BSC	

Array 20x20

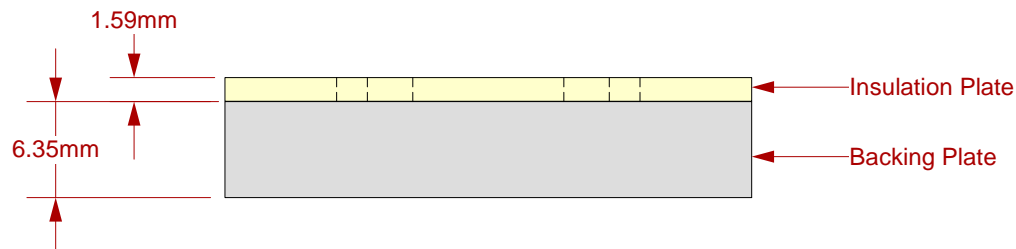
	SG-BGA-6208 Drawing	Status: Released	Scale: -	Rev: B
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		File: SG-BGA-6208 Dwg		Modified: 7/21/09, AE

Top View




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

Side View



Description: Backing Plate with Insulation Plate

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		File: SG-BGA-6208 Dwg	Modified: 7/21/09, AE	

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