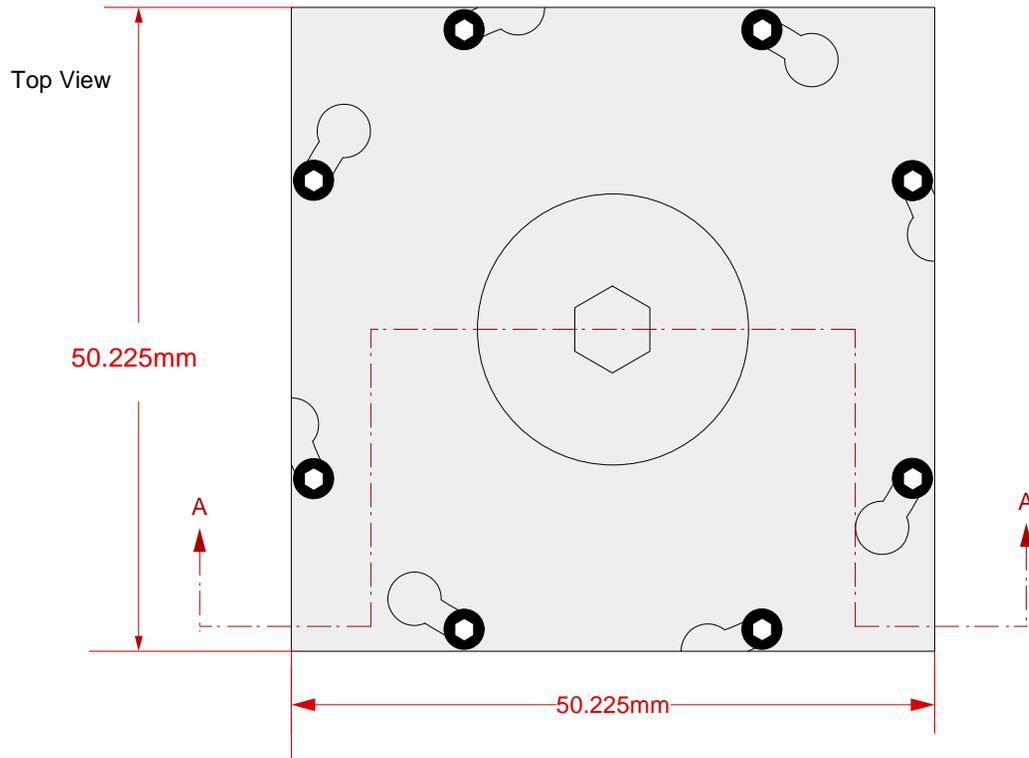
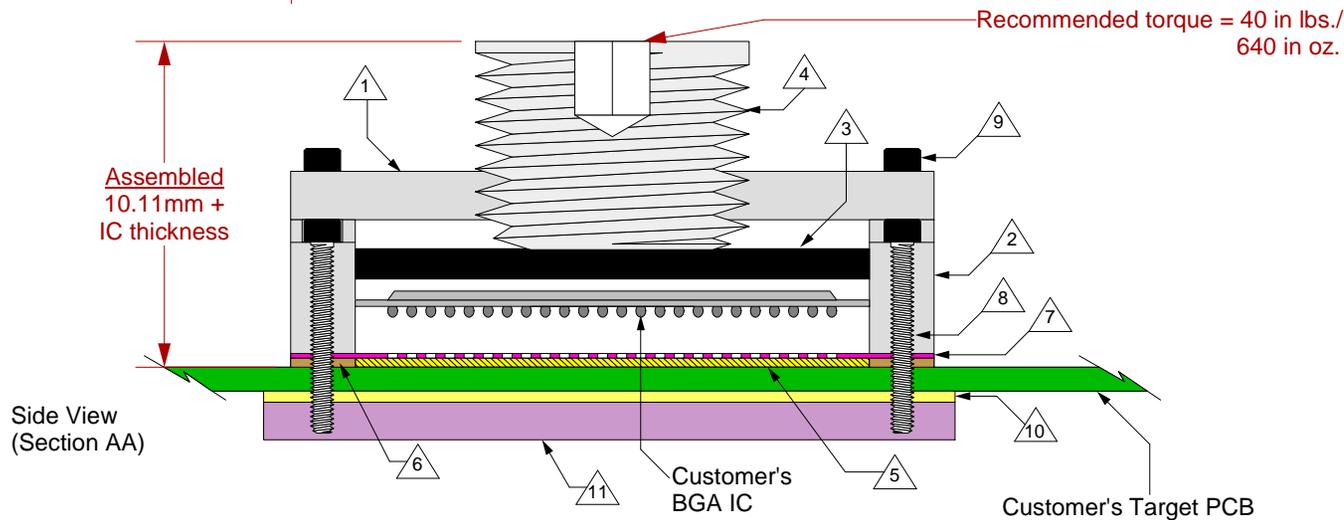


GHz BGA Socket - Direct mount, solderless



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: Ultem. 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, 15.815mm 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-6296 Drawing

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 Tele: (952) 229-8200
 www.ironwoodelectronics.com

Status: Released

Scale: -

Rev: A

Drawing: Vinayak R

Date: 1/14/09

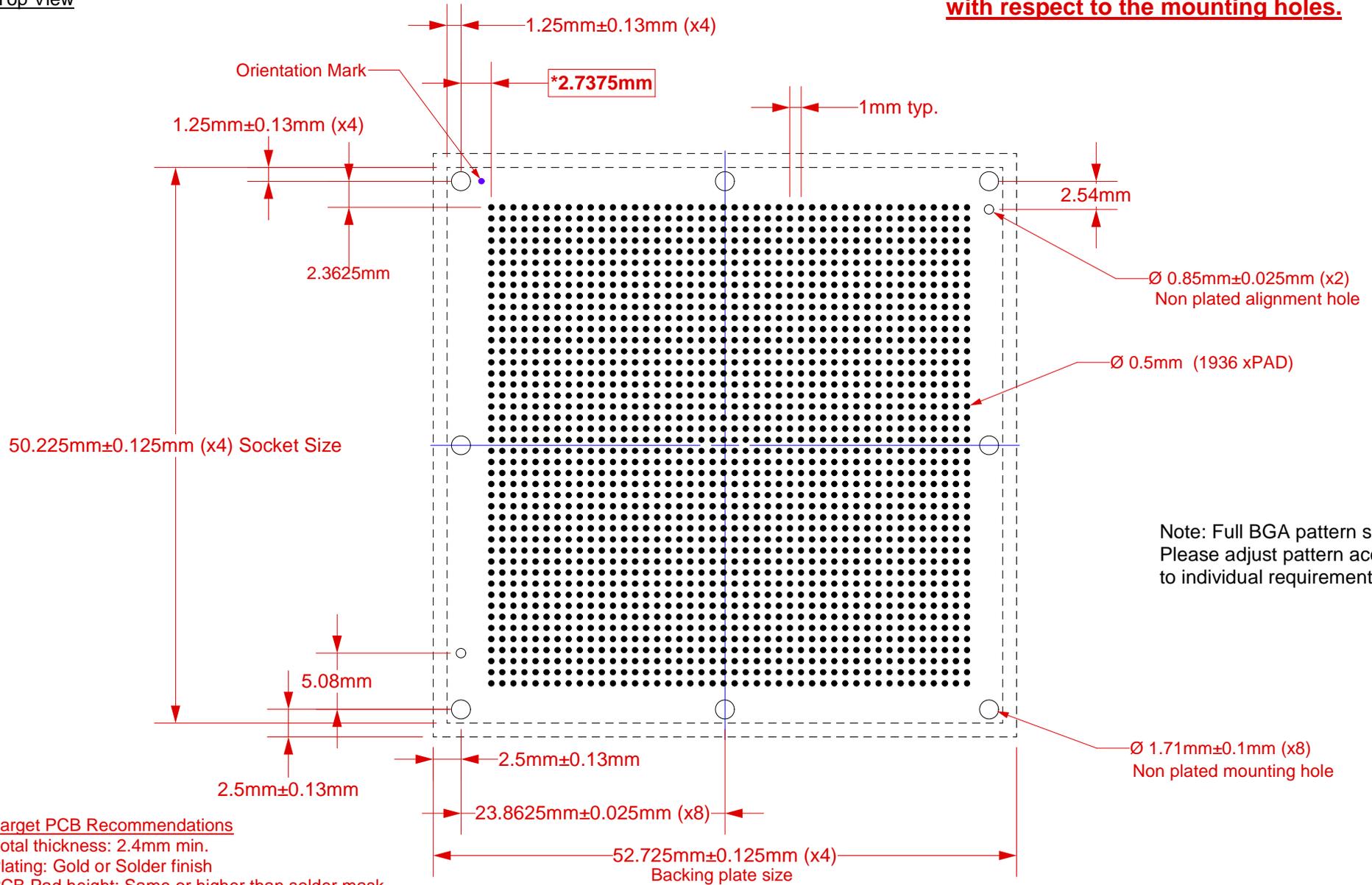
File: SG-BGA-6296 Dwg

Modified:

All tolerances: $\pm 0.125\text{mm}$ (unless stated otherwise). Materials and specifications are subject to change without notice.

Recommended PCB Layout
Top View

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



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

Target PCB Recommendations

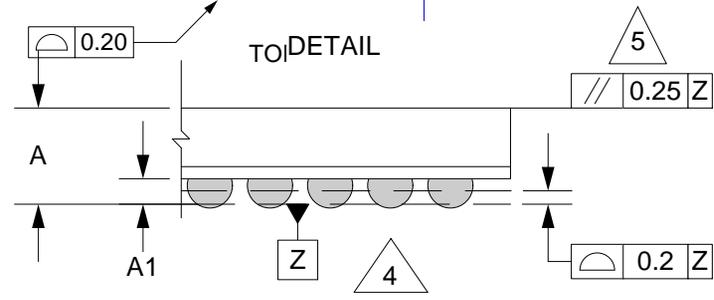
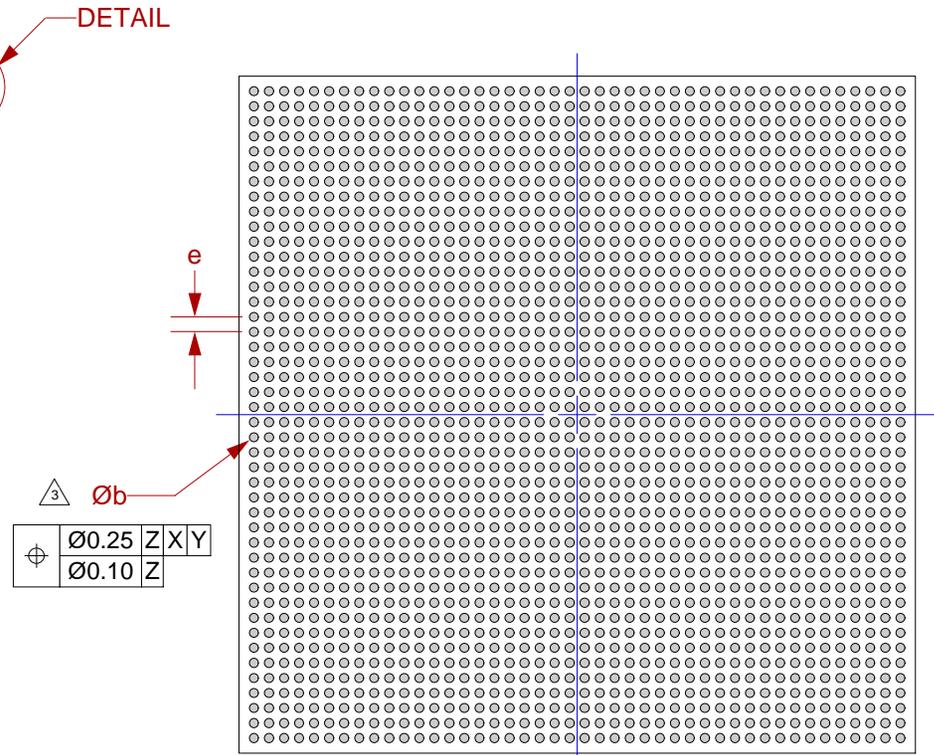
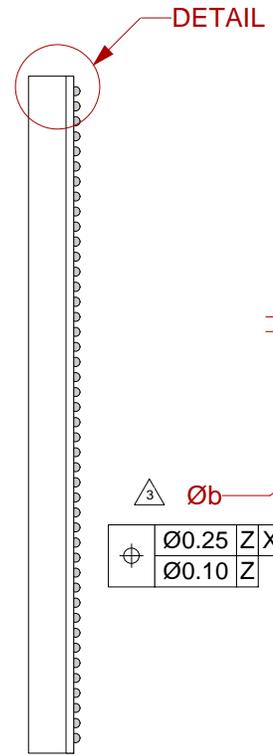
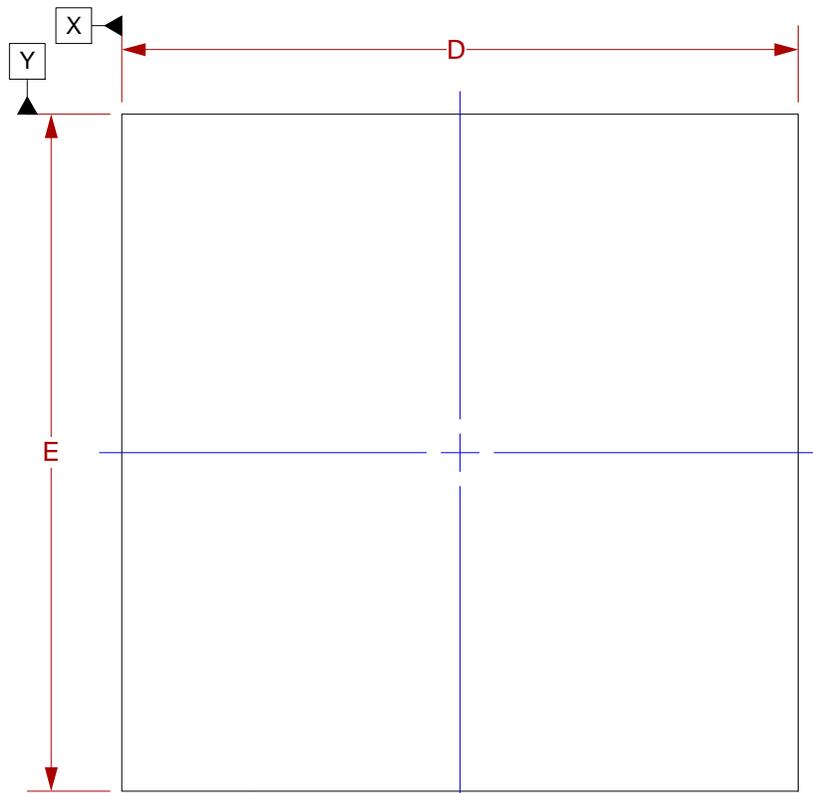
Total thickness: 2.4mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

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-6296 Drawing	Status: Released	Scale: 2:1	Rev: A
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		File: SG-BGA-6296 Dwg	Modified:	

Compatible BGA Spec



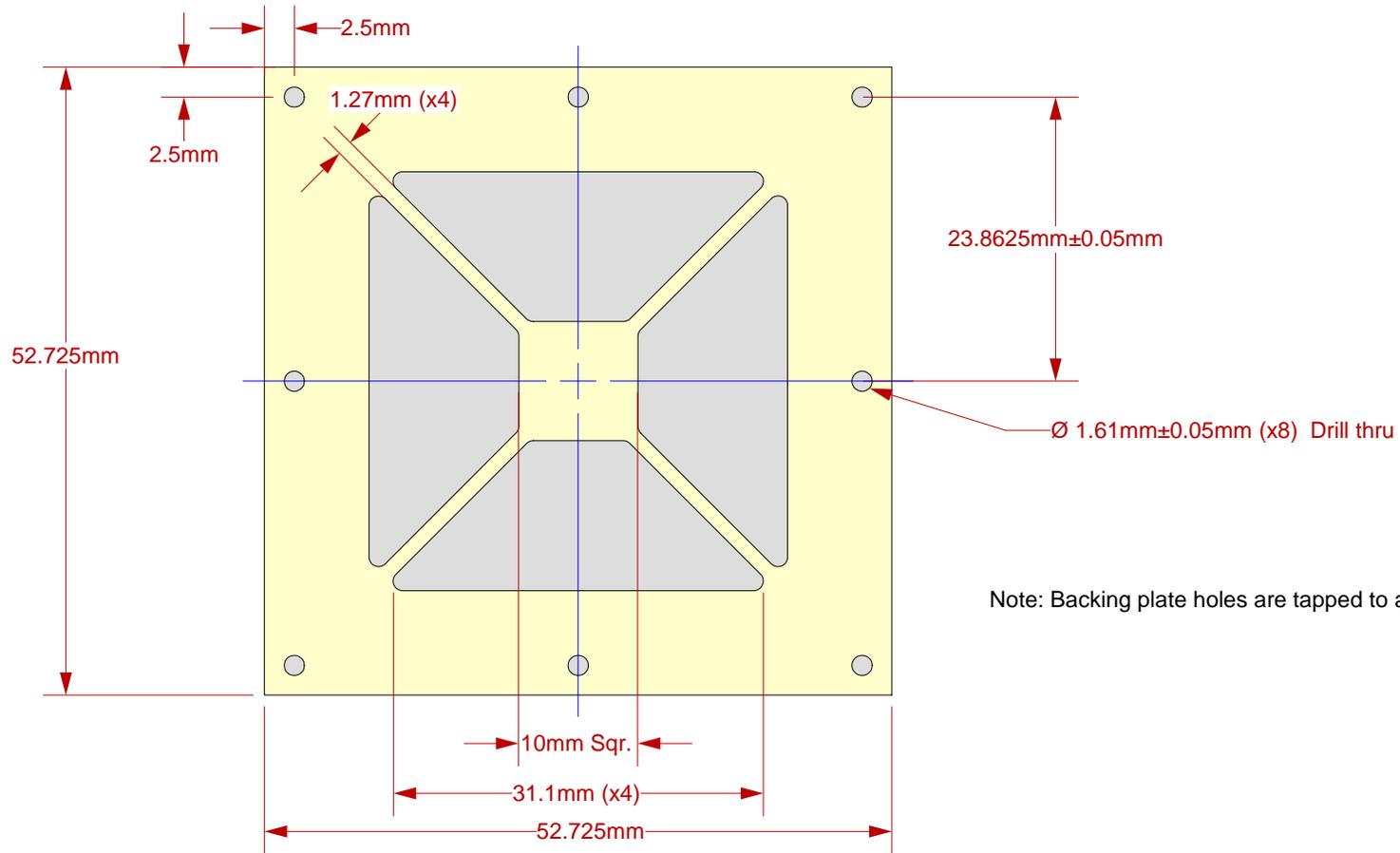
- 1 Dimensions are in millimeters.
- 2 Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 5 Parallelism measurement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

DIM	MIN	MAX
A	2.80	3.60
A1	0.4	0.6
b	0.50	0.70
D	45.00 BSC	
E	45.00 BSC	
e	1.00 BSC	

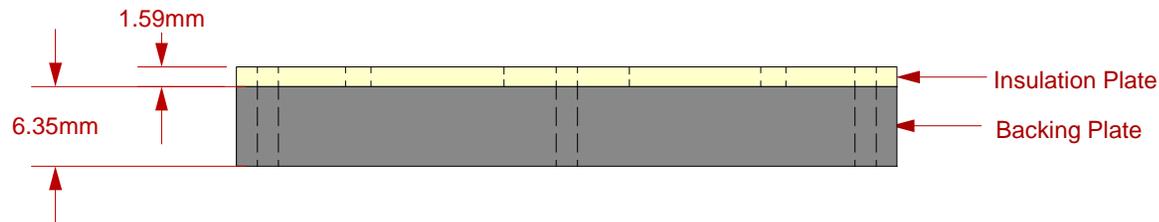
Array: 44x44

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	<p>Drawing: Vinayak R</p>	<p>Date: 1/14/09</p>		<p>Modified:</p>
	<p>File: SG-BGA-6296 Dwg</p>			

Top View



Side View



Description: Insulation Plate and Backing Plate

	SG-BGA-6296 Drawing	Status: Released	Scale: - 1:0.6	Rev: A
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		File: SG-BGA-6296 Dwg	Modified:	

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