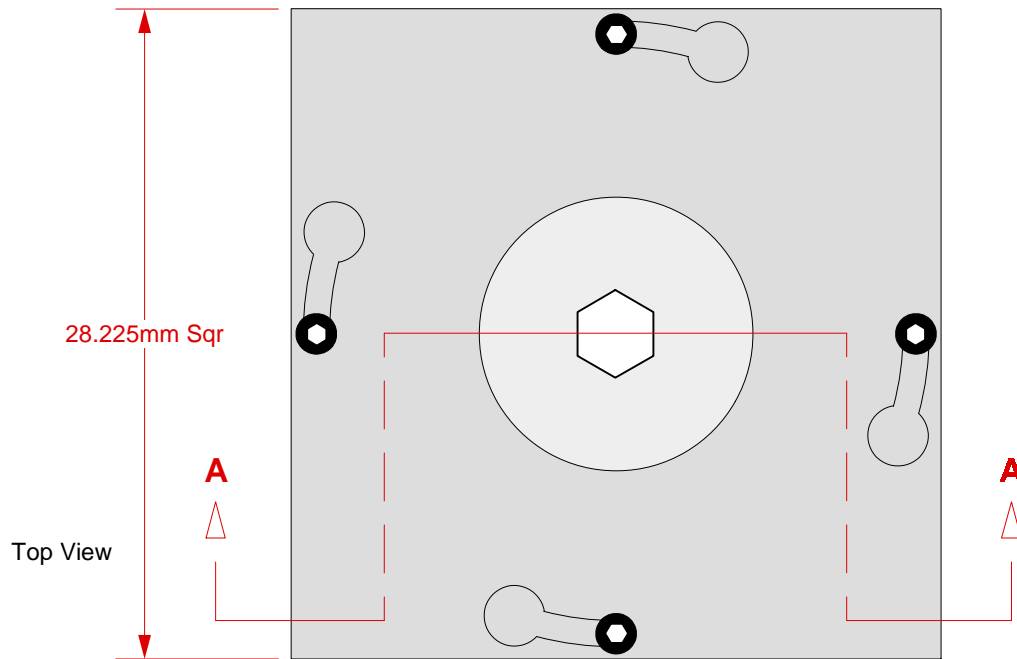


GHz BGA Socket - Direct mount, solderless

Features

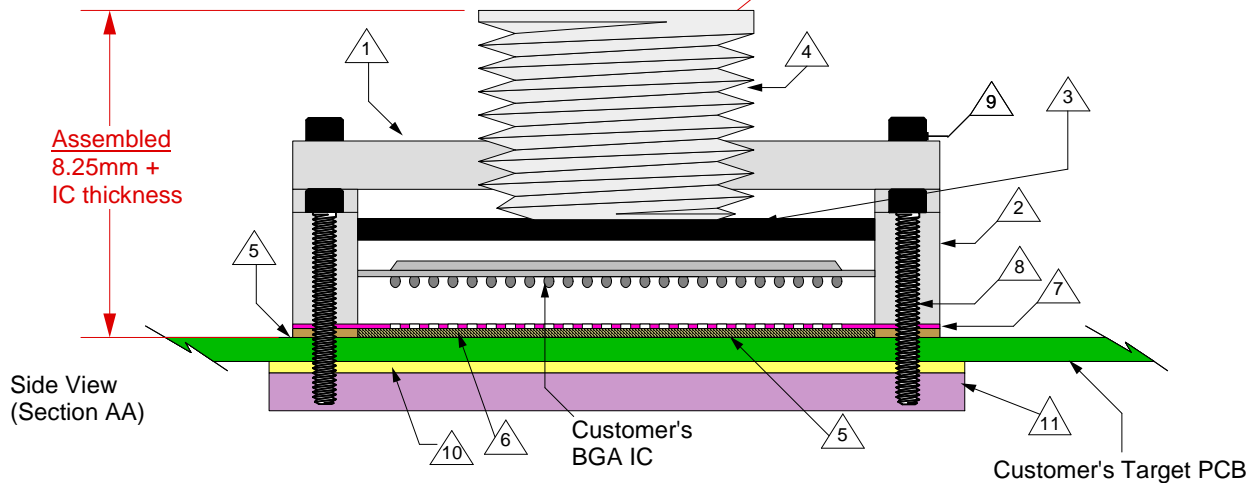
- Directly mounts to target PCB (needs tooling holes) with hardware.
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Ball guide prevents over compression of elastomer
- Easily removable swivel socket lid



Top View

28.225mm Sqr

Recommended torque = 4 - 5 in lbs.



Side View
(Section AA)

Assembled
8.25mm +
IC thickness

- △ 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. Hex socket = 5mm, fin height 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, Thickness = 1.59mm.
- △ 11 Backing Plate: Black anodized Aluminum. Thickness = 6.35mm.

SG-BGA-6266 Drawing

Status: Released

Scale: -

Rev: B



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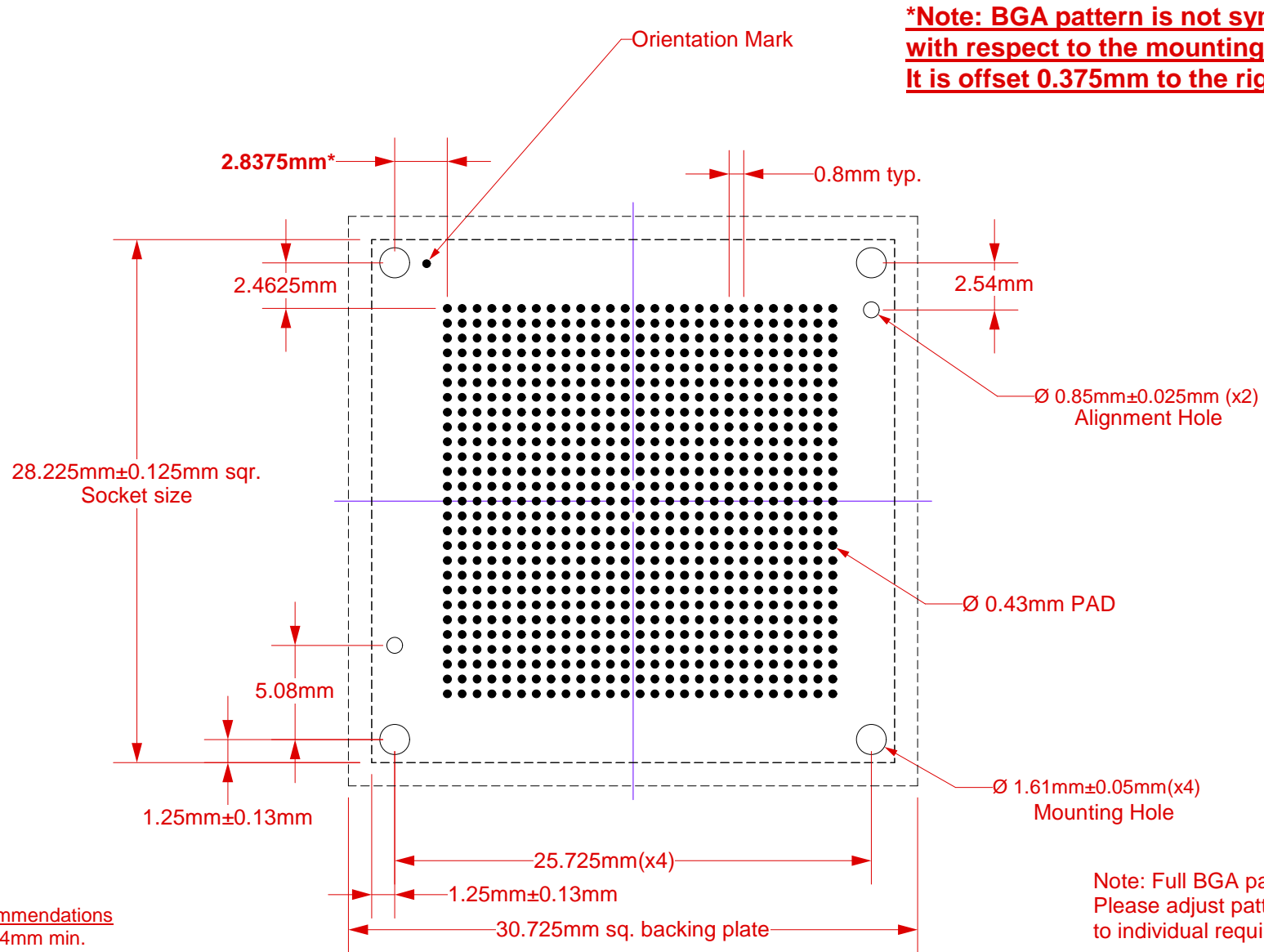
Drawing: Vinayak R

Date: 4/24/08

File: **SG-BGA-6266** Dwg.mcd

Modified: 8/10/09, AE

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



***Note: BGA pattern is not symmetrical with respect to the mounting holes. It is offset 0.375mm to the right of center.**


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

Target PCB Recommendations

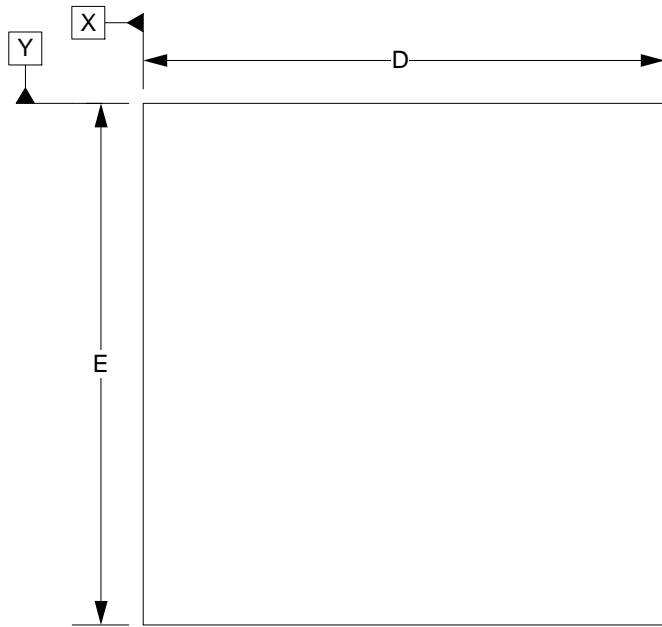
Total thickness: 2.4mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

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

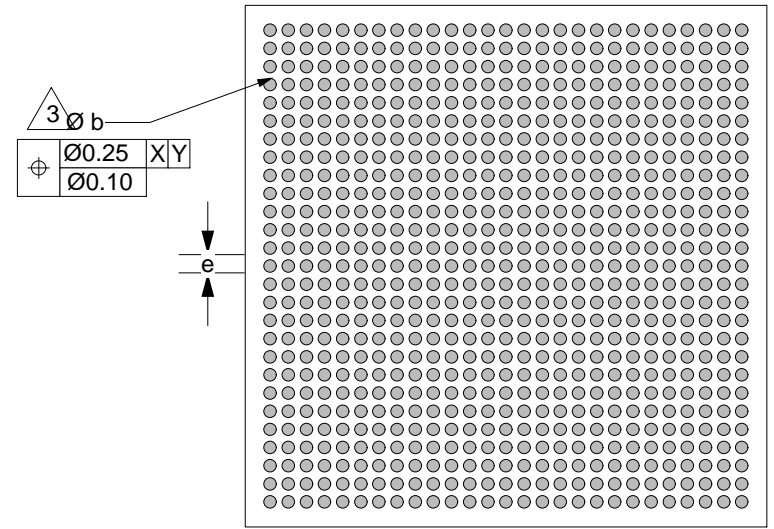
Recommended PCB Layout Tolerances: ±0.025mm [±0.001"] unless stated otherwise.

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	<p>Drawing: Vinayak R</p>	<p>Date: 4/24/08</p>		<p>Modified: 8/10/09, AE</p>
<p>File: SG-BGA-6266 Dwg.mcd</p>				

Compatible BGA Spec.

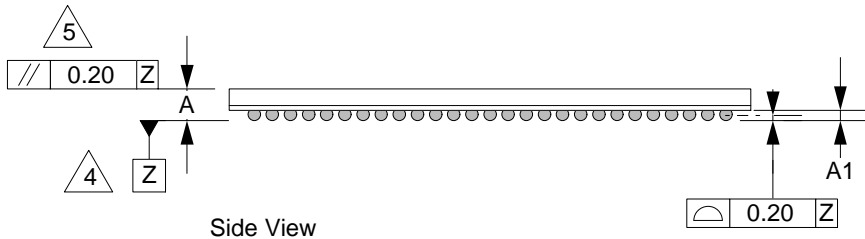


Top View



Bottom View

Array:27x27




Side View

1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.

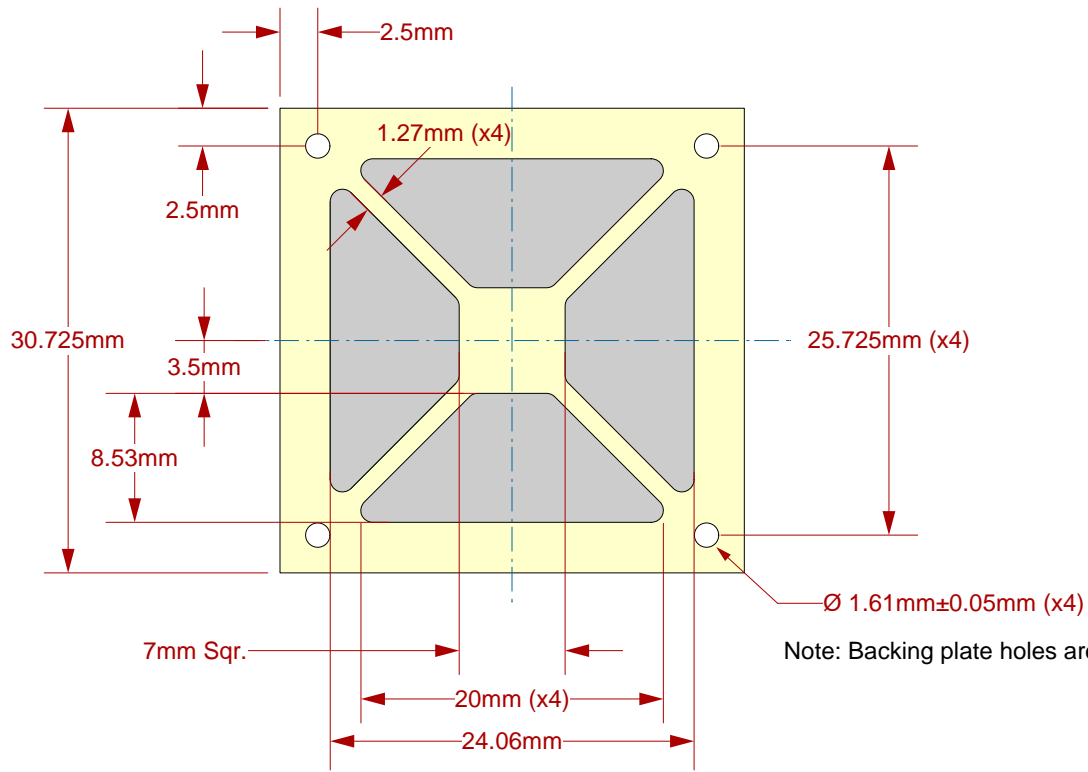
- △ 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z .
- △ 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- △ 5 Parallelism measurement shall exclude any effect of mark on top surface of package.

DIM	MIN	MAX
A		2.15
A1	0.25	0.35
b		0.50
D	23.0 BSC	
E	23.0 BSC	
e	0.8 BSC	

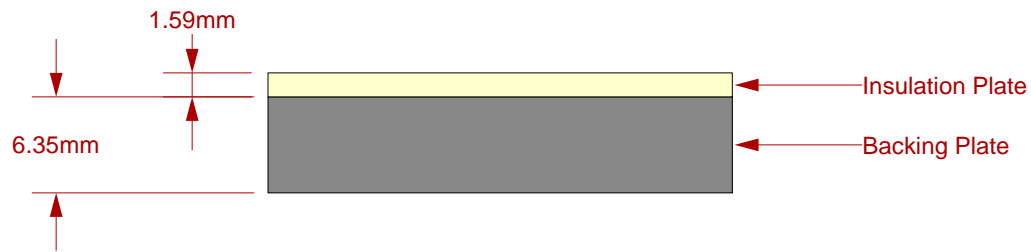
27x27 array

	SG-BGA-6266 Drawing	Status: Released	Scale: -	Rev: B
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Top View



Side View



Description: Backing Plate with Insulation Plate

	SG-BGA-6266 Drawing	Status: Released	Scale: -	Rev: B
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		File: SG-BGA-6266 Dwg.mcd	Modified: 8/10/09, AE	

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