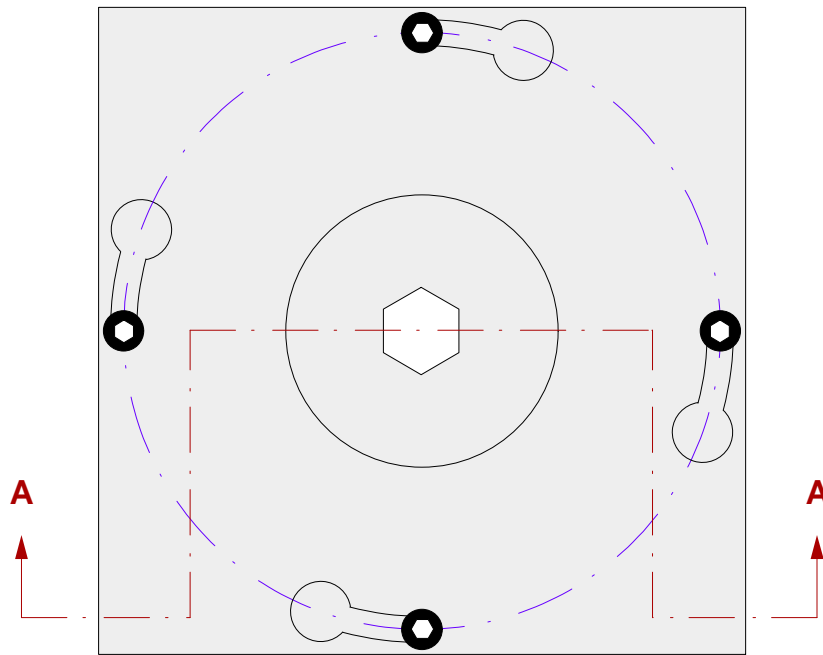


GHz BGA Socket - Direct mount, solderless

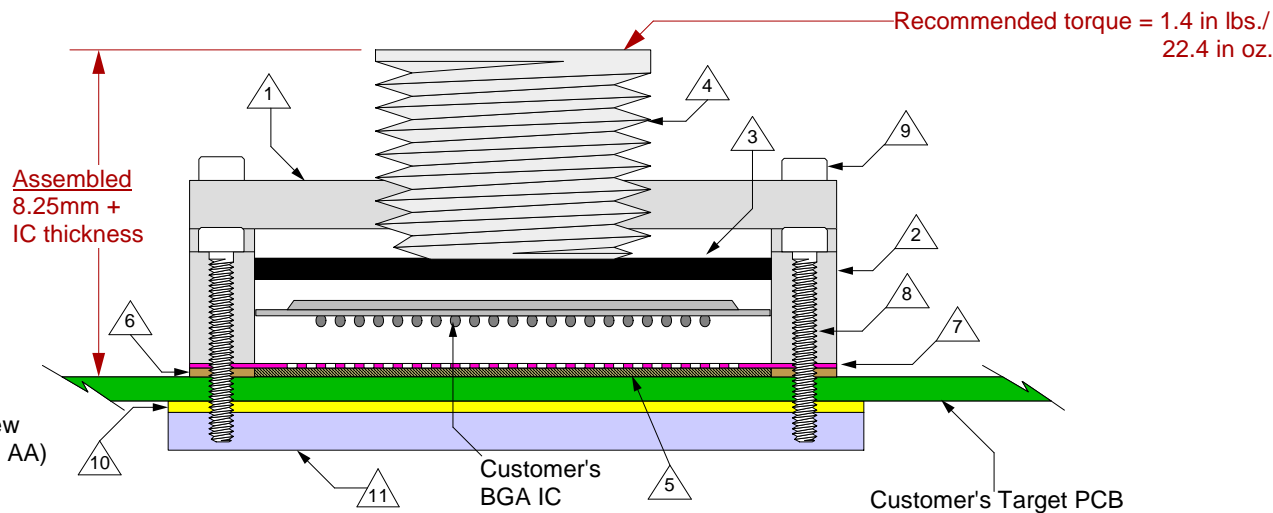
Features

- Directly mounts to target PCB (needs tooling holes) with hardware.
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- 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, 9.525mm 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-7042 Drawing

Status: Released

Scale: -

Rev: B

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Drawing: H. Hansen

Date: 3/17/05

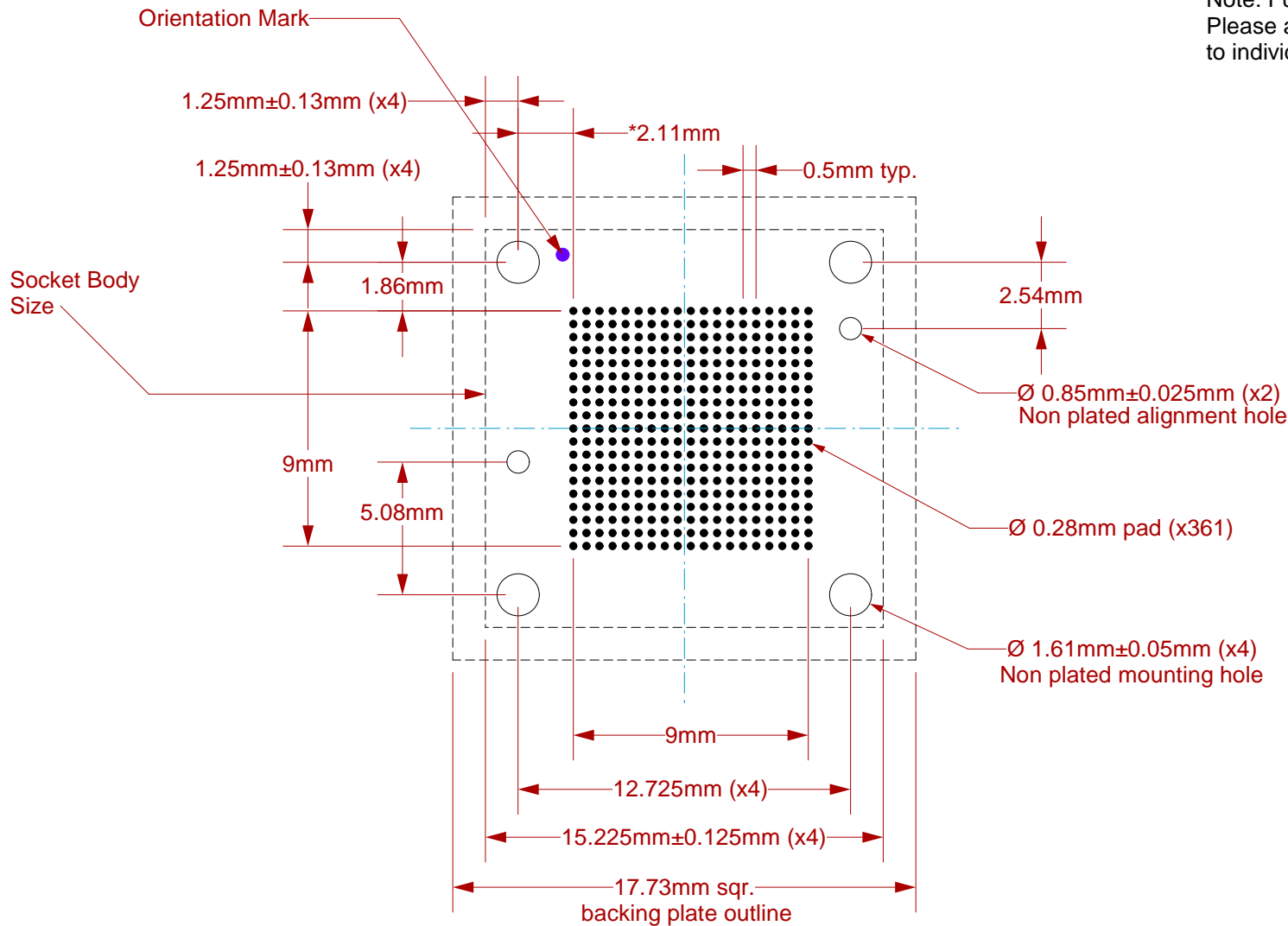
File: SG-BGA-7042 Dwg

Modified: 6/2/09, AE

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

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

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




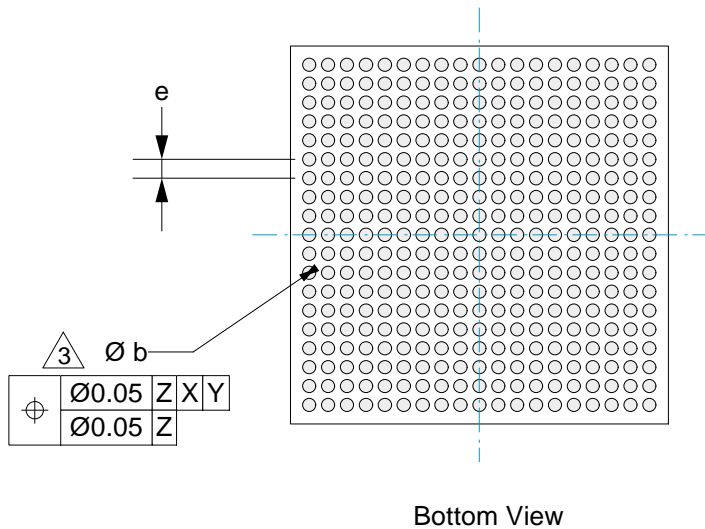
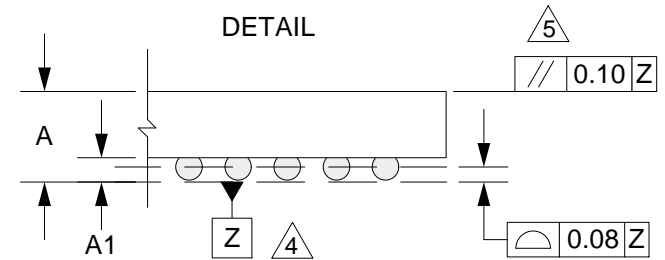
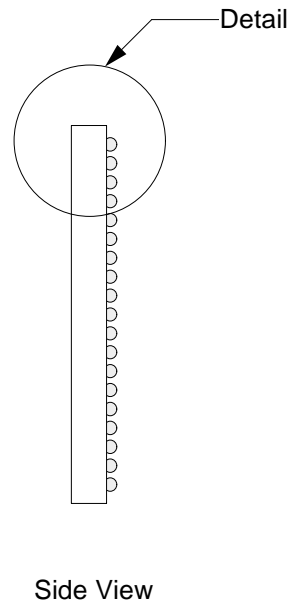
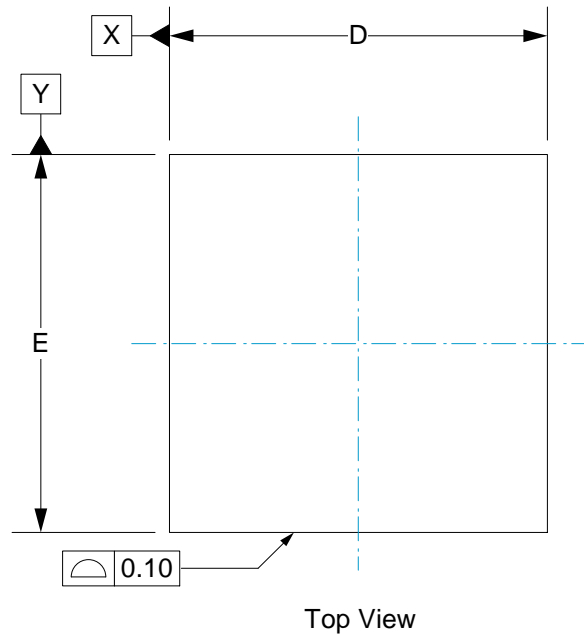
Target PCB Recommendations

Total thickness: 1.6mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

All dimensions are in mm unless stated otherwise

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


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	Drawing: H. Hansen		Date: 3/17/05		
	File: SG-BGA-7042 Dwg		Modified: 6/2/09, AE		



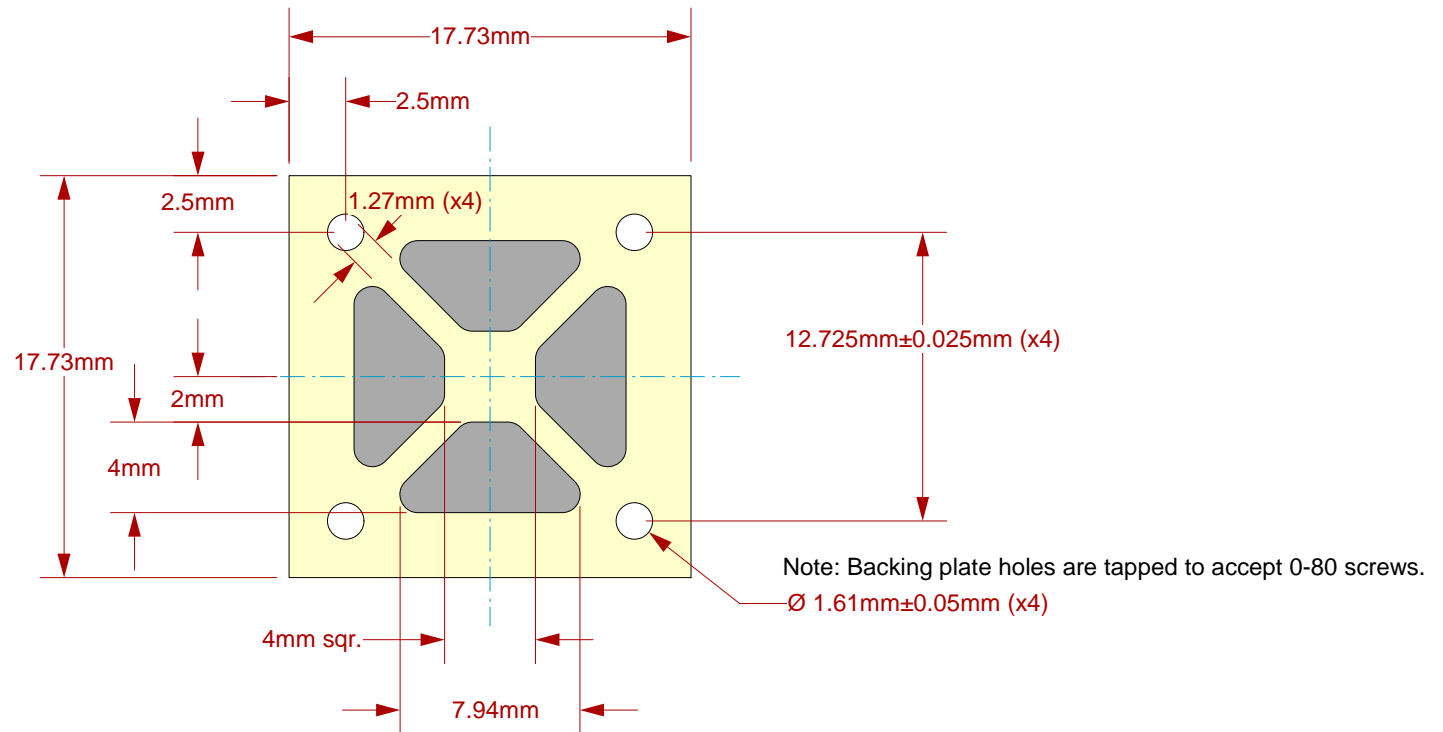
1. Dimensions are in millimeters.
 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
 - 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
 - 5 Parallelism measurement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

DIM	MIN	MAX
A		1.2
A1	0.13	0.27
b		0.35
D	10.0 BSC	
E	10.0 BSC	
e	0.5 BSC	

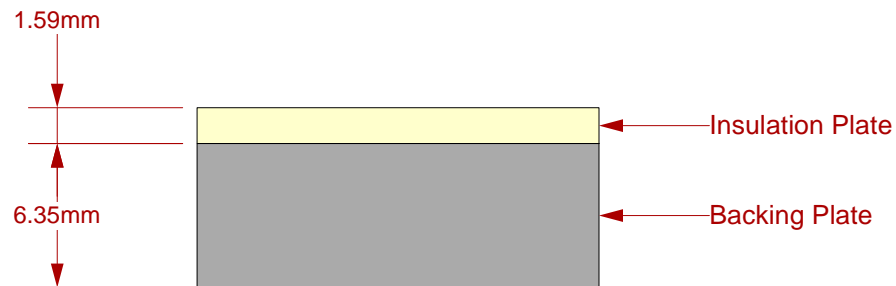
19x19 array

	SG-BGA-7042 Drawing	Status: Released	Scale: 1:0.2	Rev: B
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		File: SG-BGA-7042 Dwg	Modified: 6/2/09, AE	

Top View




Side View



Description: Insulation Plate and Backing Plate

All dimensions are in mm.
All tolerances are $\pm 0.125\text{mm}$.
(Unless stated otherwise)

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	<p>Drawing: H. Hansen</p>	<p>Date: 3/17/05</p>		
	<p>File: SG-BGA-7042 Dwg</p>	<p>Modified: 6/2/09, AE</p>		