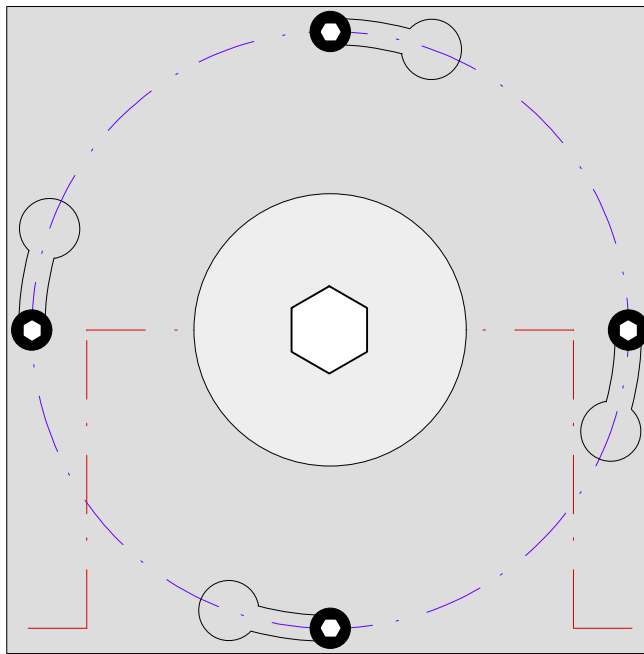


GHz BGA Socket - Direct mount, solderless

Top View

28.225mm

A



28.225mm

A

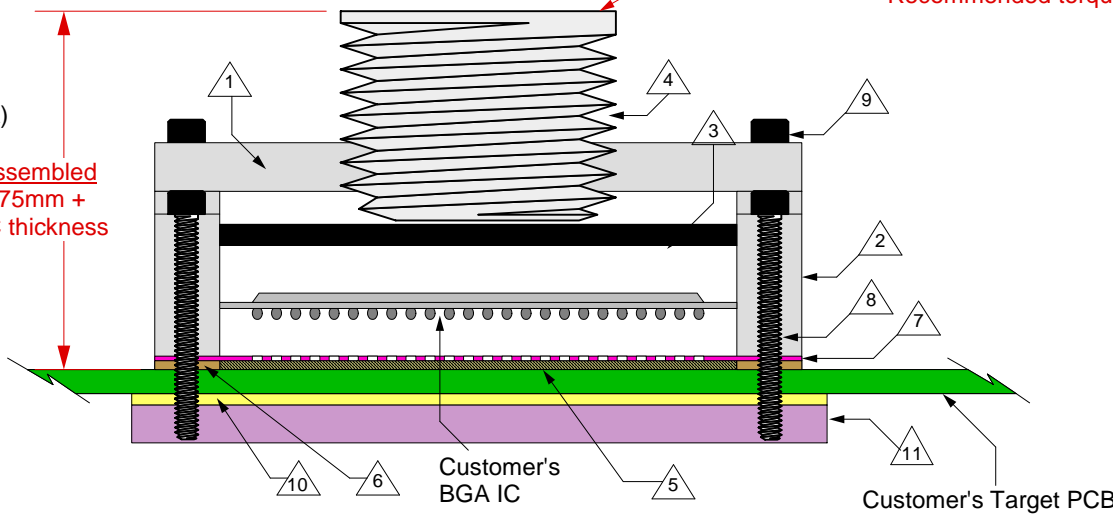
Features

- 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

Side View
(Section AA)

Assembled
9.75mm +
IC thickness

Recommended torque = 3 in lbs.



- | | |
|----|--|
| 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, Thickness = 1.59mm. |
| 11 | Backing Plate: Black anodized Aluminum.
Thickness = 6.35mm. |

SG-BGA-6211 Drawing

Status: Released

Scale: -

Rev: B



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

Drawing: Umer Qureshi

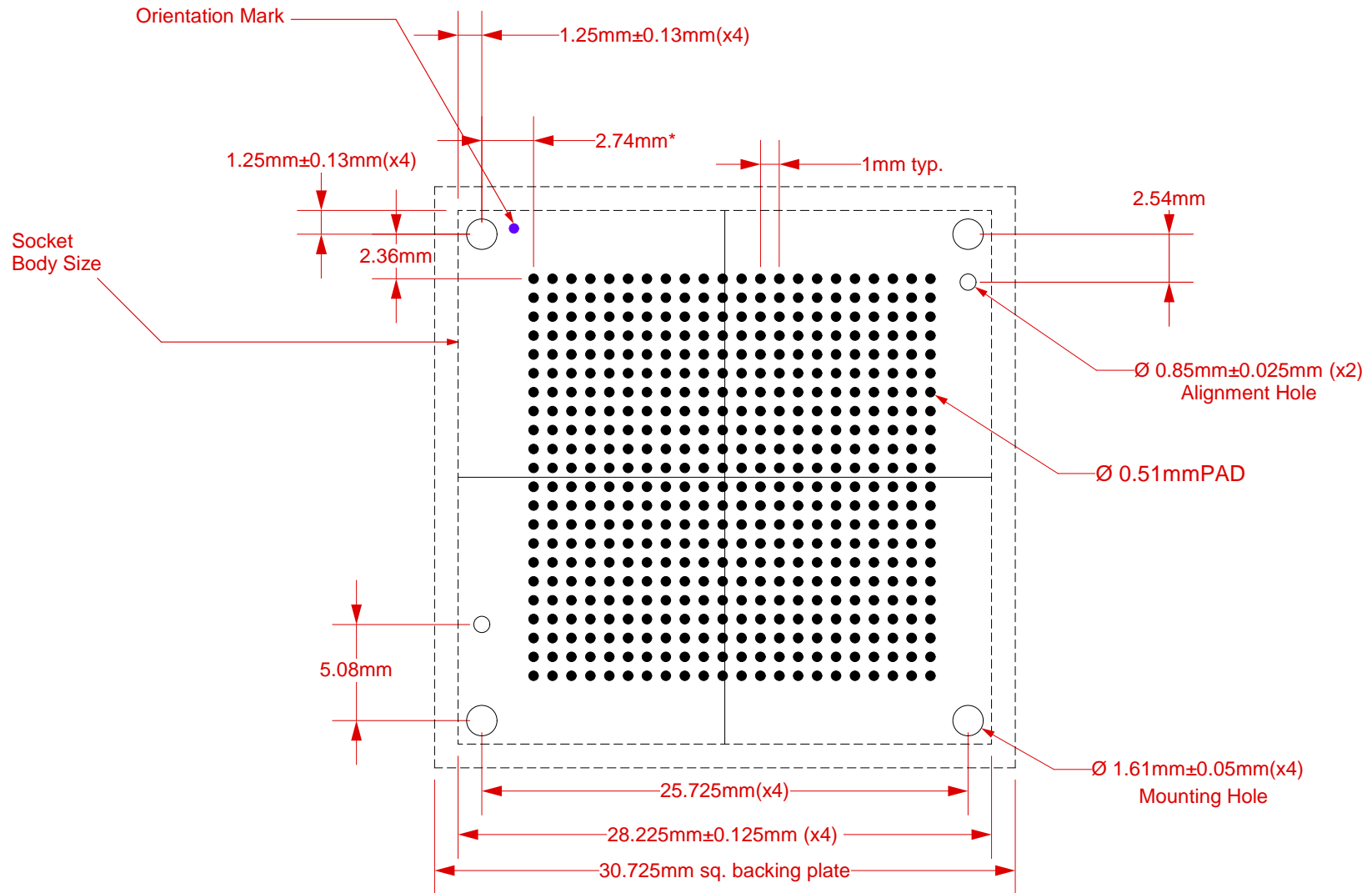
Date: 03/15/07

File: SG-BGA-6211 Dwg.mcd

Modified: 7/21/09, AE

All tolerances: ± 0.125 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.**




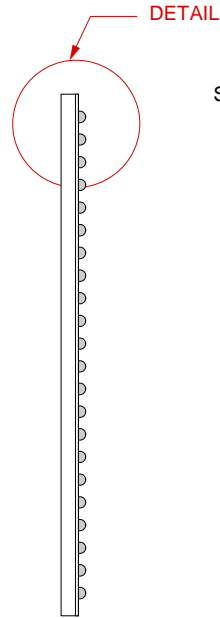
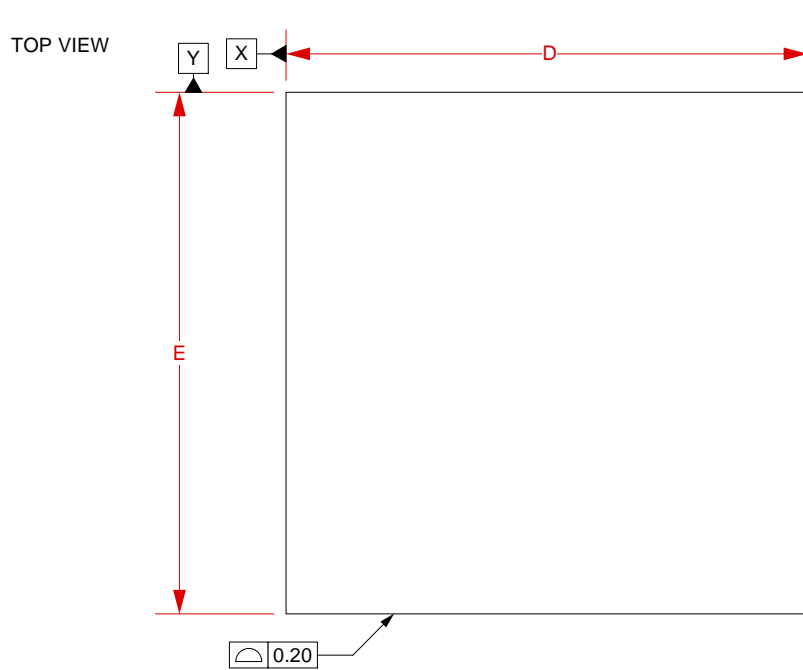
Target PCB Recommendations

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

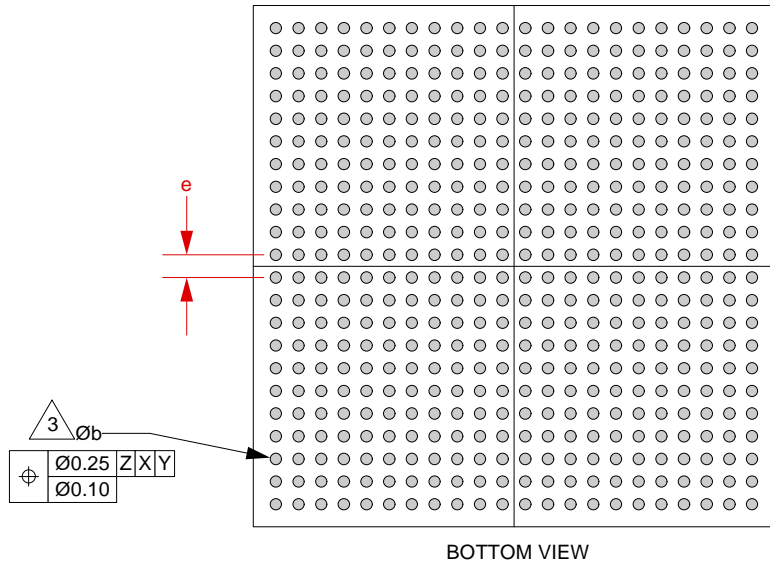
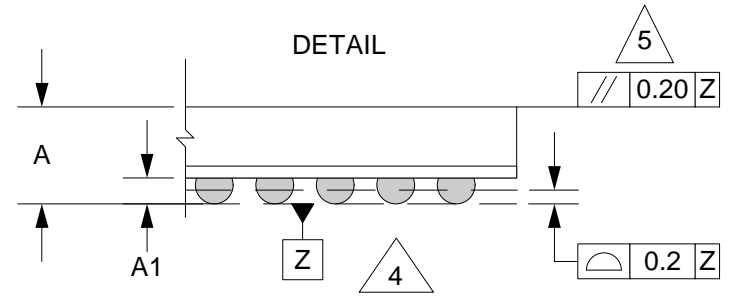
NOTE: Steel backing plate may be required based on end user's application

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

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	Drawing: Umer Qureshi		Date: 03/15/07		
	File: SG-BGA-6211 Dwg.mcd		Modified: 7/21/09, AE		




SIDE VIEW



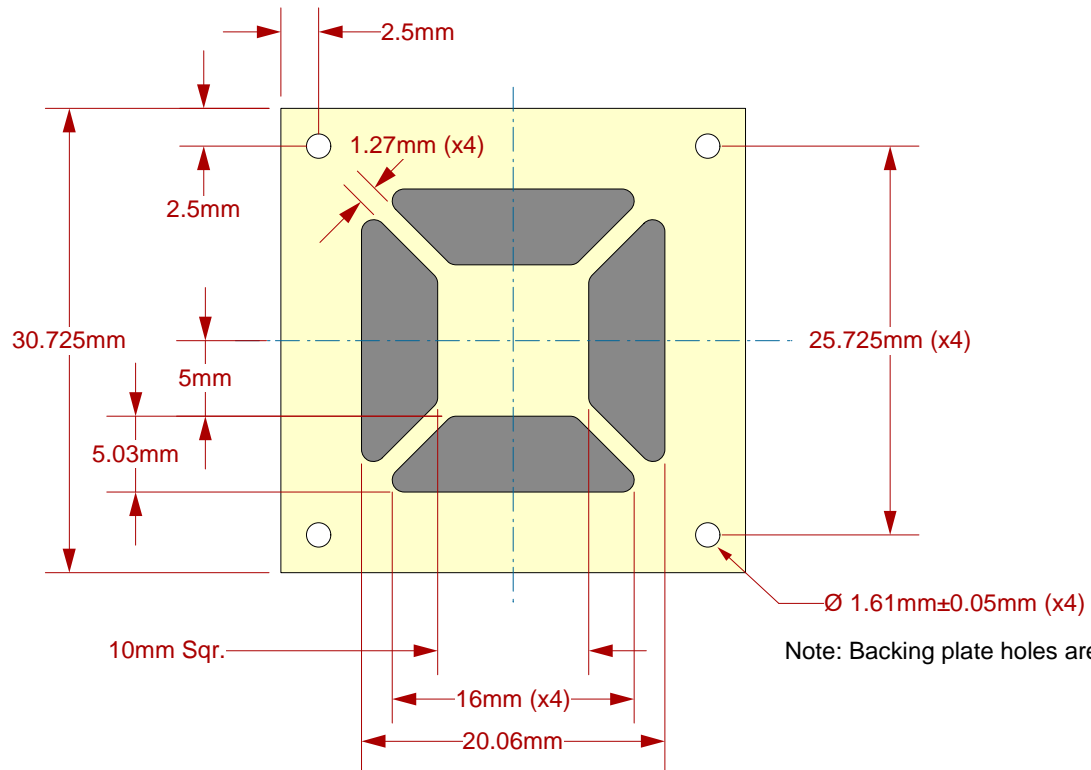
- 1 Dimensions are in millimeters.
- 2 Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 5 Parallelism measurement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

DIM	MIN	MAX
A		4
A1	0.4	0.6
b		0.70
D	23.00 BSC	
E	23.00 BSC	
e	1.0 BSC	

Array 22x22

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	<p>Drawing: Umer Qureshi</p>	<p>Date: 03/15/07</p>	<p>File: SG-BGA-6211 Dwg.mcd</p>	<p>Modified: 7/21/09, AE</p>


Top View



Side View



Description: Backing Plate with Insulation Plate

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	<p>Drawing: Umer Qureshi</p>		<p>Date: 03/15/07</p>		
	<p>File: SG-BGA-6211 Dwg.mcd</p>		<p>Modified: 7/21/09, AE</p>		

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