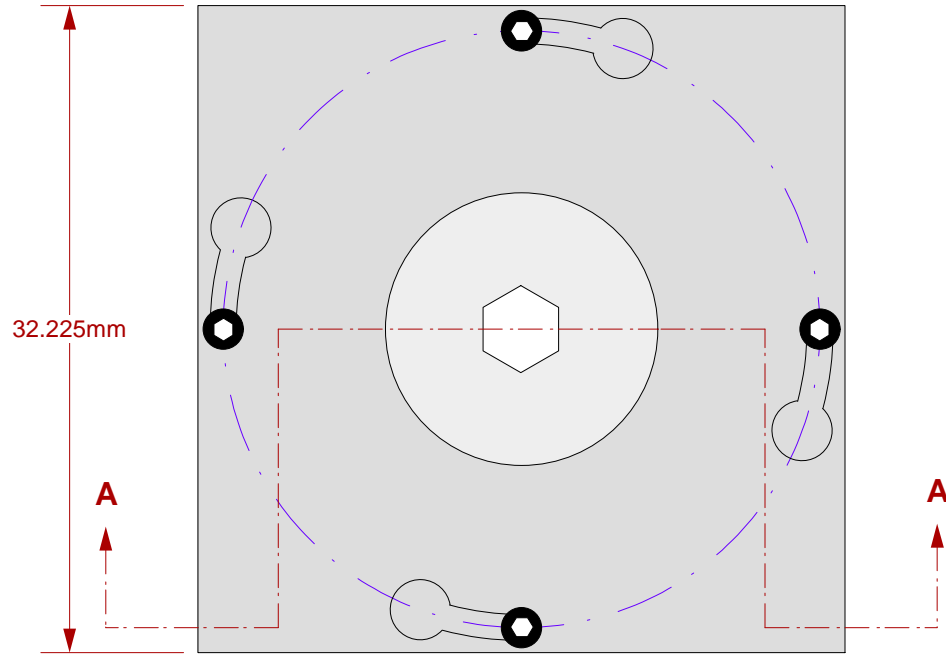


Top View

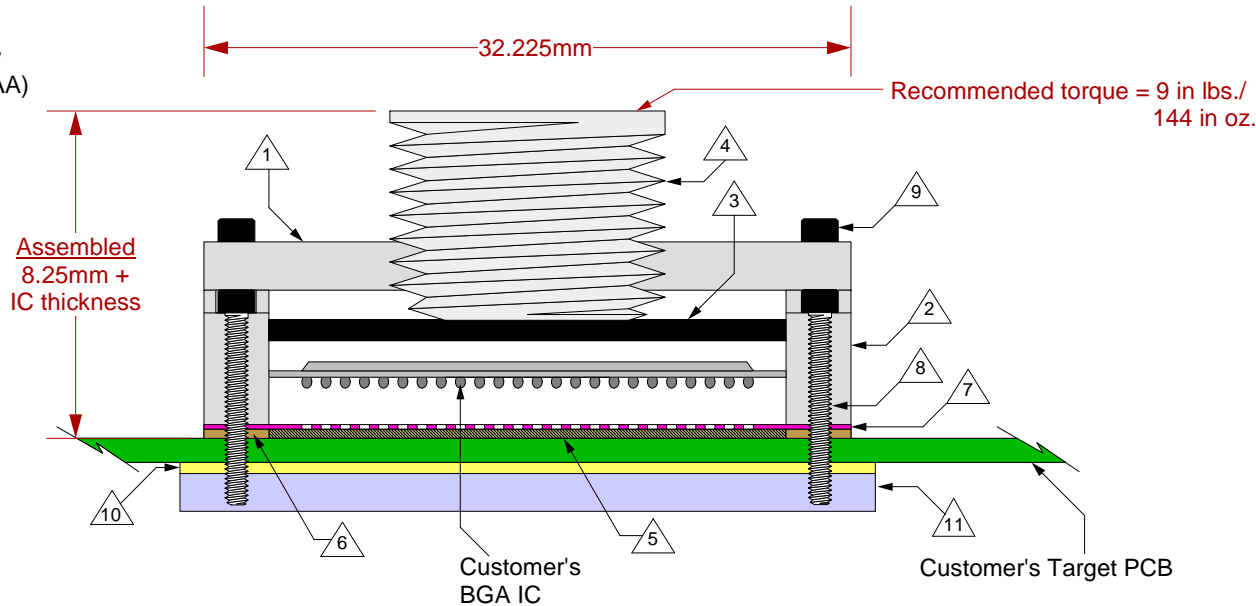


GHz BGA Socket - Direct mount, solderless

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

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 , 12.7 mm 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: Black anodized Aluminum 6.35mm thick.

SG-BGA-8011 Drawing

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

Status: Released

Scale: -

Rev: C

Drawing: J. Glab

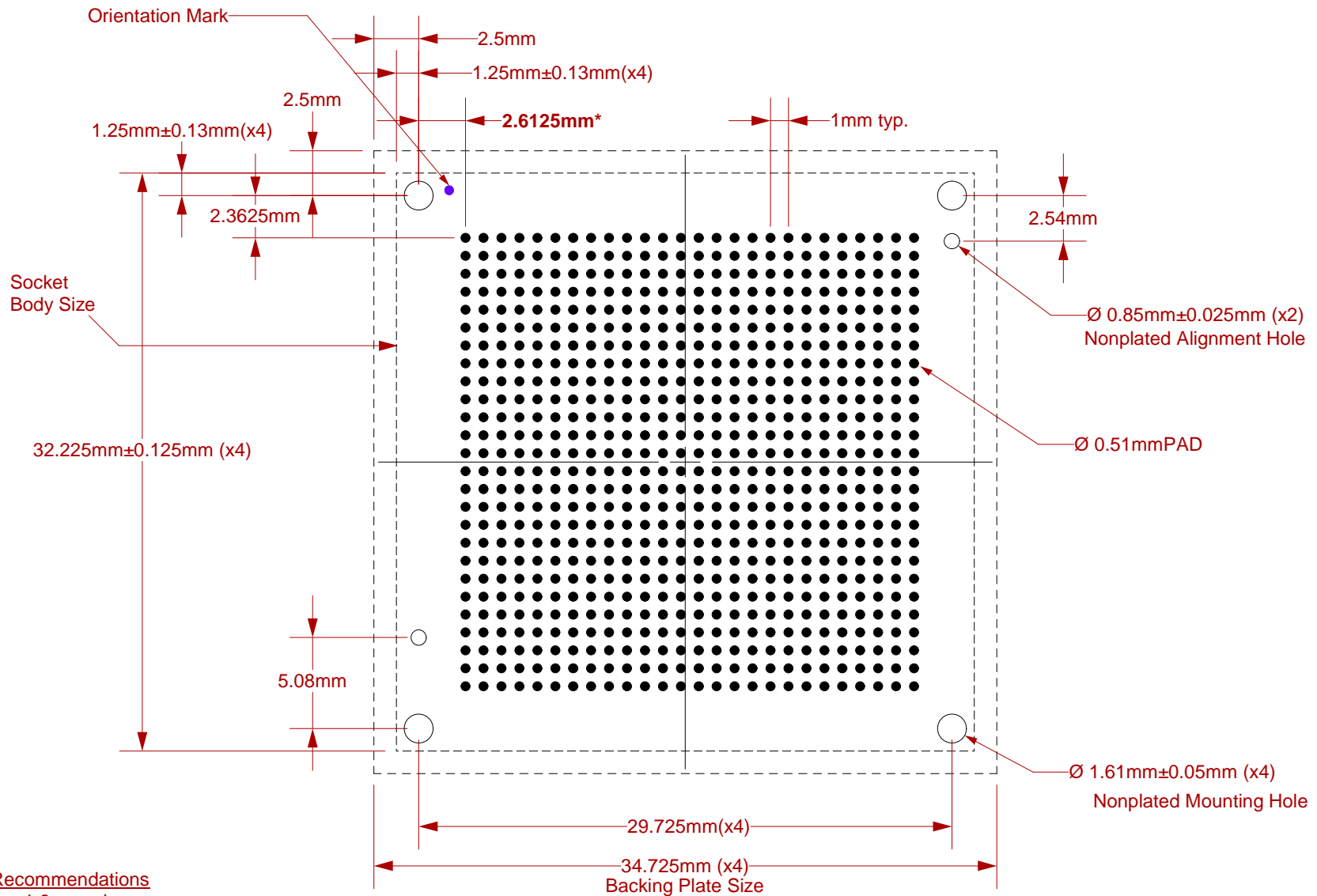
Date: 12/04/07

File: SG-BGA-8011 Dwg

Modified: 5/19/09

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.**




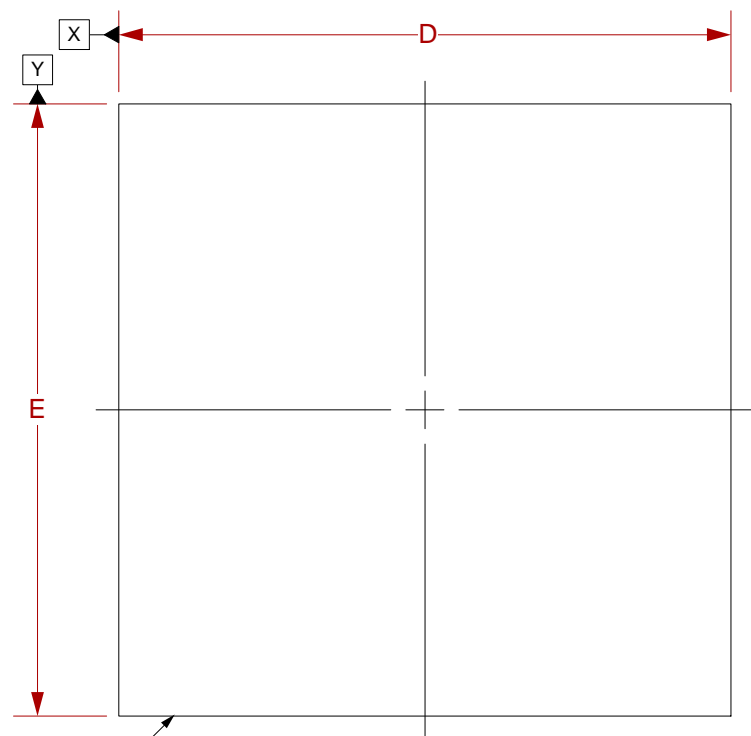
Target PCB Recommendations

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

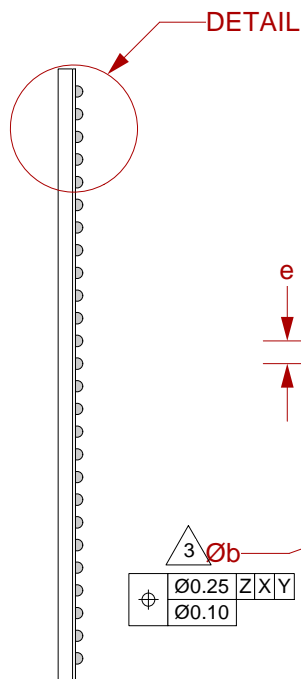
NOTE: Steel backing plate may be required based on end user's application

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

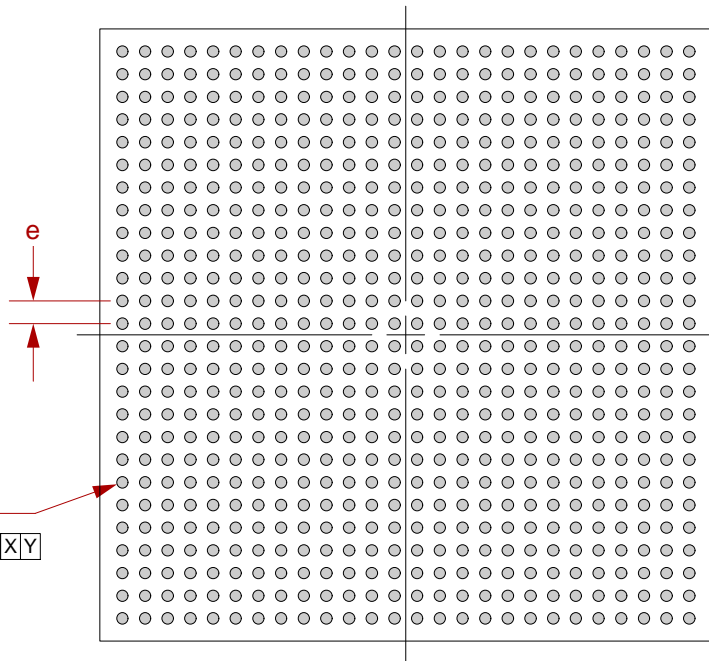
 <p>© 2007 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Ste 400 Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	<p>SG-BGA-8011 Drawing</p>	<p>Status: Released</p>	<p>Scale: -</p>	<p>Rev: C</p>
	<p>Drawing: J. Glab</p>	<p>Date: 12/04/07</p>		
	<p>File: SG-BGA-8011 Dwg</p>	<p>Modified: 5/19/09</p>		



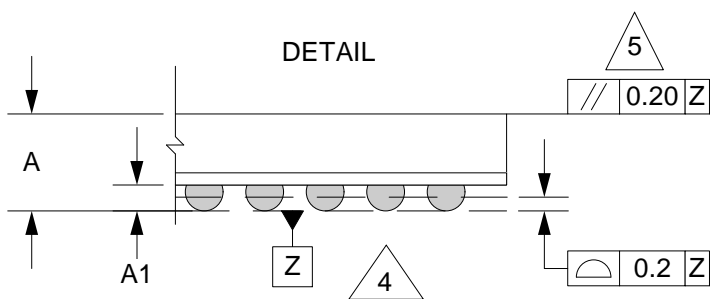
TOP VIEW



SIDE VIEW



BOTTOM 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		2.5
A1	0.4	0.6
b		0.70
D	27.00 BSC	
E	27.00 BSC	
e	1.0 BSC	

Array 26x26

SG-BGA-8011 Drawing

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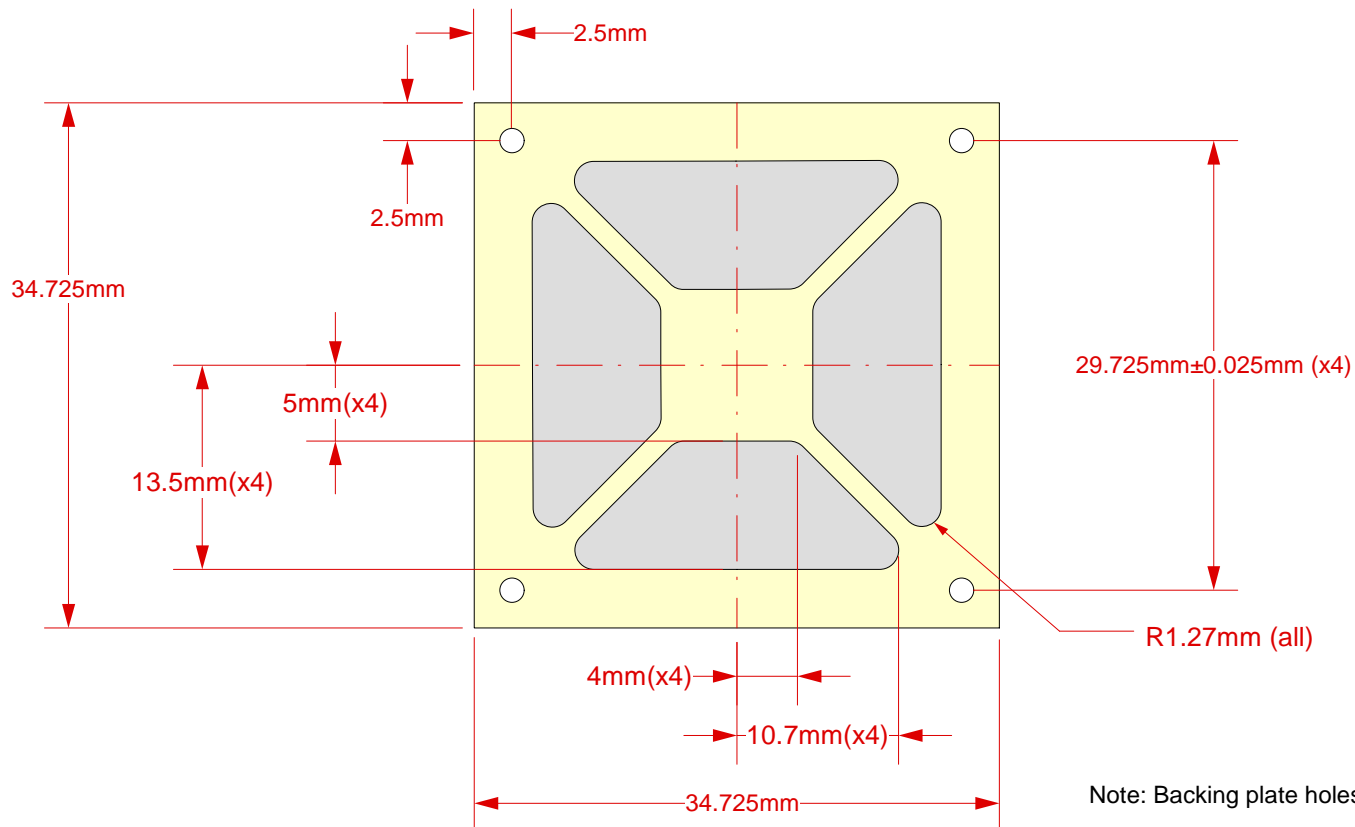
Drawing: J. Glab

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File: SG-BGA-8011 Dwg

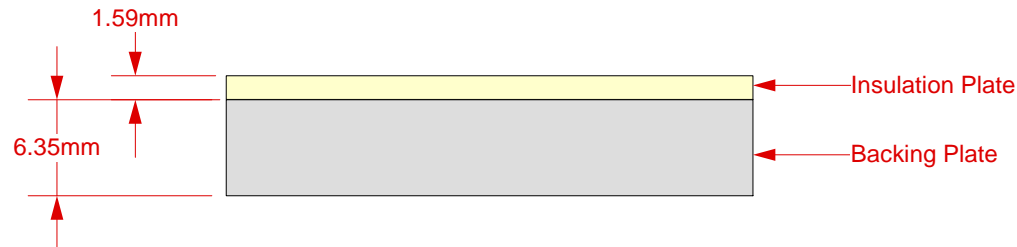
Modified: 5/19/09

Top View



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

Side View



Description: Backing Plate with Insulation Plate

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

SG-BGA-8011 Drawing

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