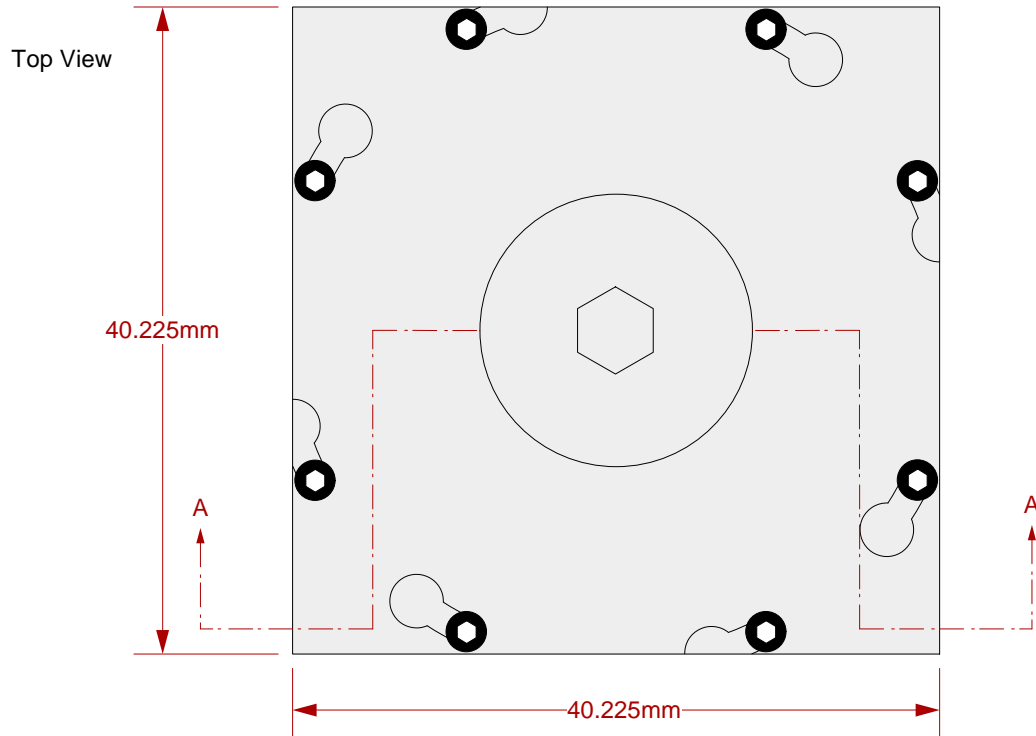
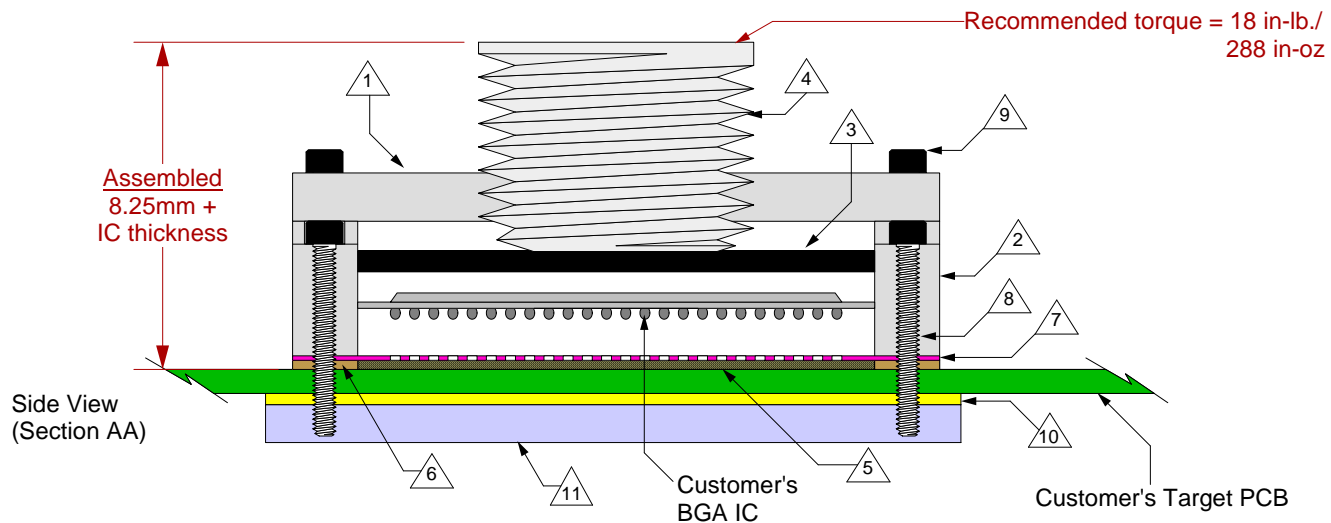


GHz BGA Socket - Direct mount, solderless




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

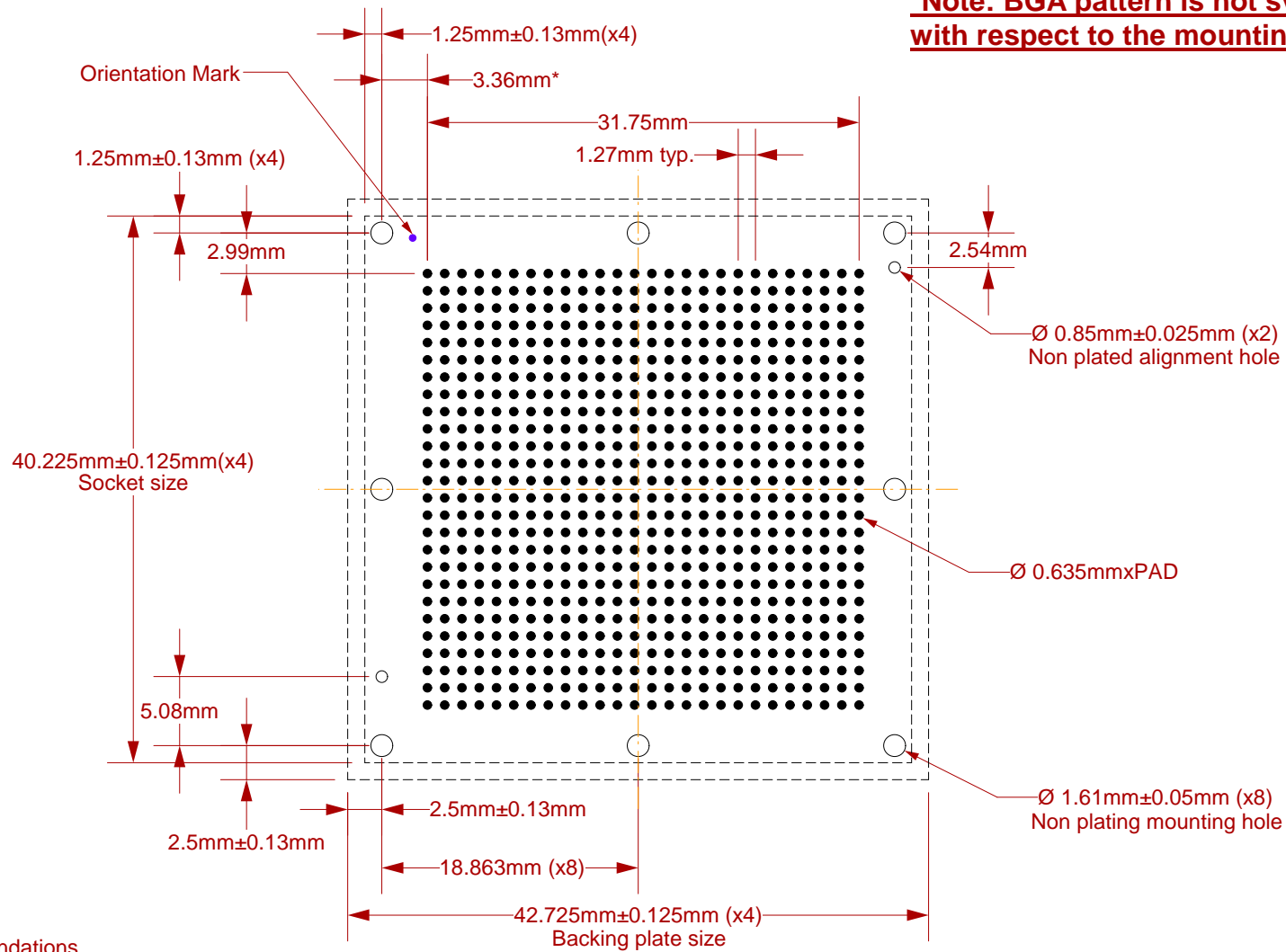


- 1 Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.
- 2 Socket base: Black anodized Aluminum. Thickness = 5mm.
- 3 Compression Plate: Black anodized Aluminum. Thickness = 2.5mm.
- 4 Elastomer: 40 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.75mm.
- 5 Compression screw: Clear anodized Aluminum. Thickness = 5mm, Hex socket = 5mm.
- 6 Elastomer Guide: Cirlex or equivalent. 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-6013 Drawing	Status: Released	Scale: -	Rev: G
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: Meghann Fedde	Date: 8/20/01	
		File: SG-BGA-6013 Dwg.mcd	Modified: 6/15/09, AE	

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

Recommended PCB Layout
Top View




Target PCB Recommendations

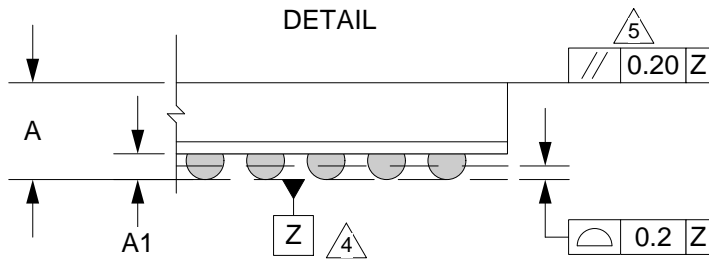
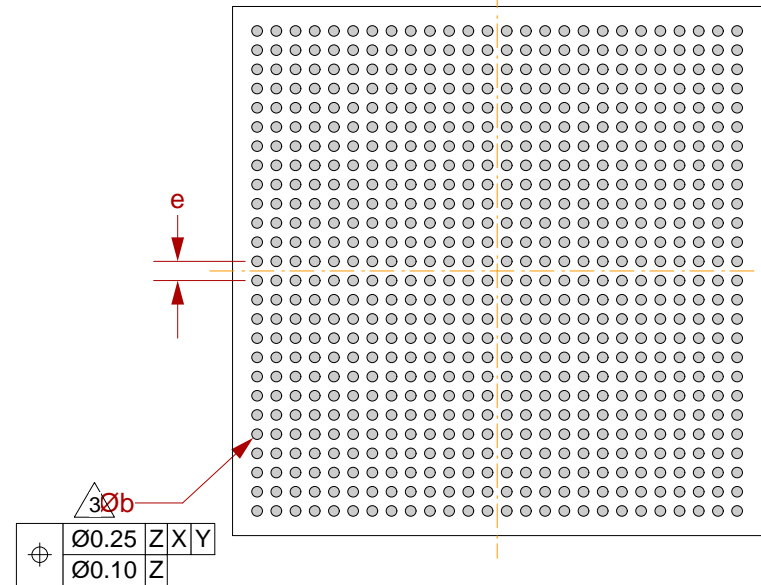
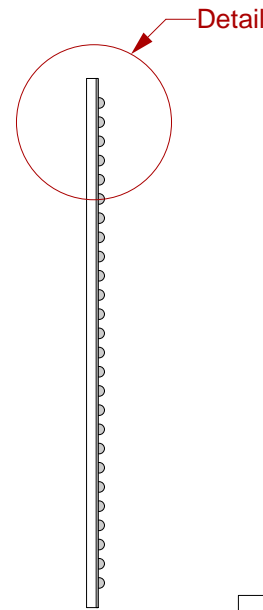
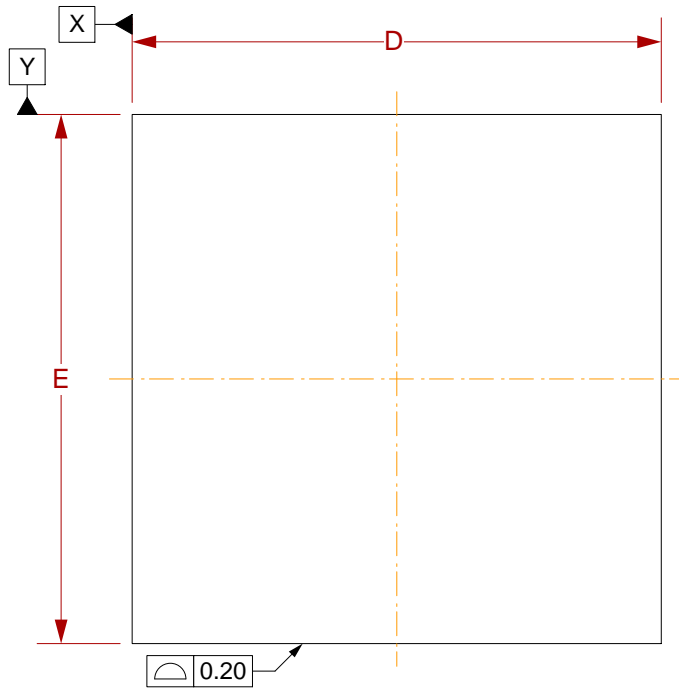
Total thickness: 2.4mm min.
 Plating: Gold or Solder finish
 PCB Pad height: Same or higher than solder mask

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: Meghann Fedde</p>	<p>Date: 8/20/01</p>	<p>File: SG-BGA-6013 Dwg.mcd</p>	<p>Modified: 6/15/09, AE</p>


Compatible BGA Spec



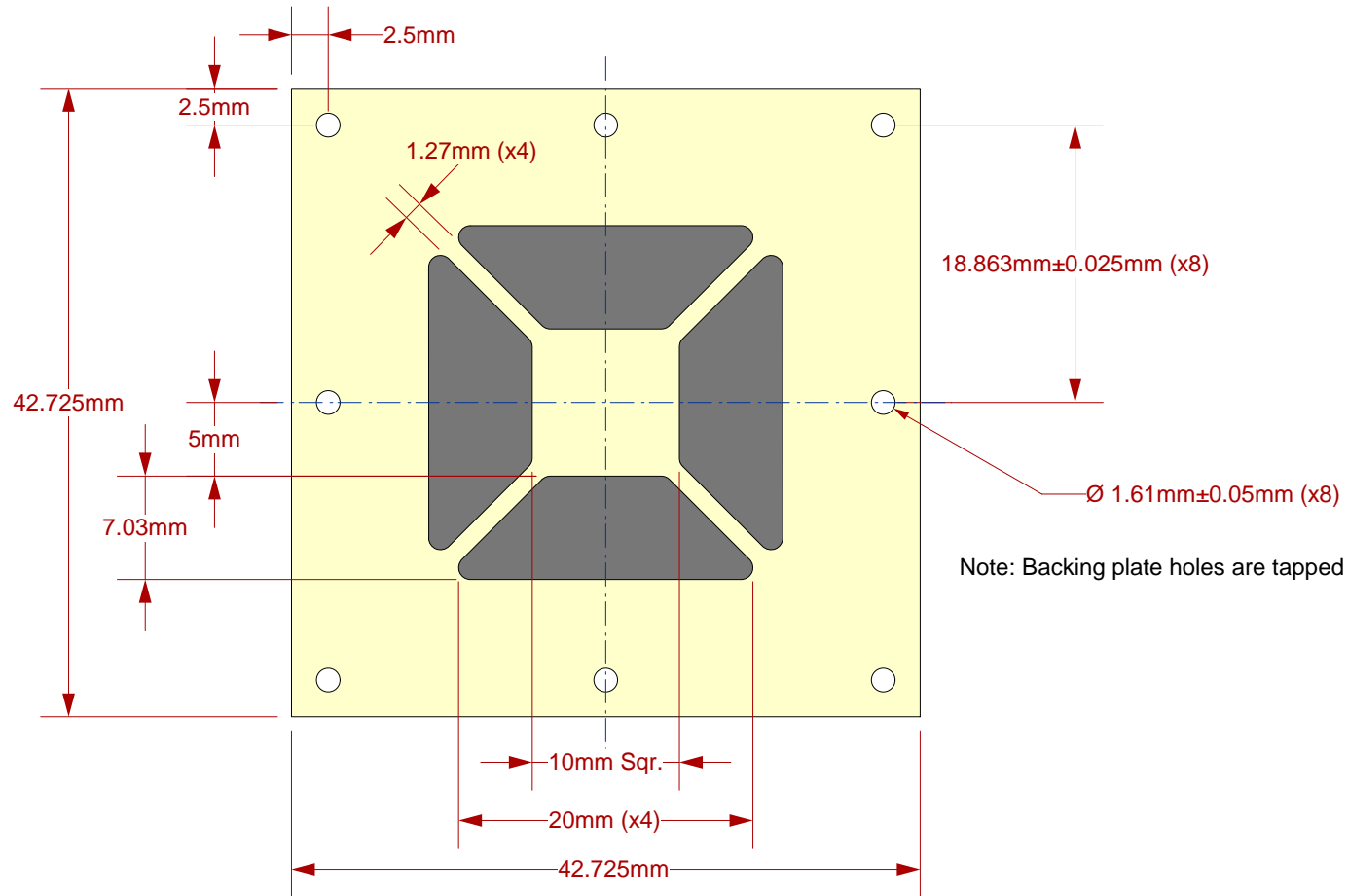
- 1 Dimensions are in millimeters.
- 2 Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 5 Parallelism measurement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

DIM	MIN	MAX
A		2.5
A1	0.5	0.7
b		0.90
D	35.0 BSC	
E	35.0 BSC	
e	1.27 BSC	

Array 26x26

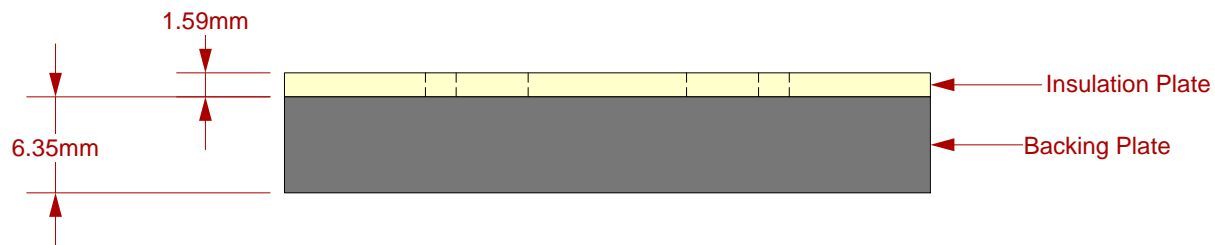
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	Drawing: Meghann Fedde		Date: 8/20/01	
	File: SG-BGA-6013 Dwg.mcd		Modified: 6/15/09, AE	

Top View




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

Side View



Description: Insulation Plate and Backing Plate

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

	SG-BGA-6013 Drawing	Status: Released	Scale: -	Rev: G
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