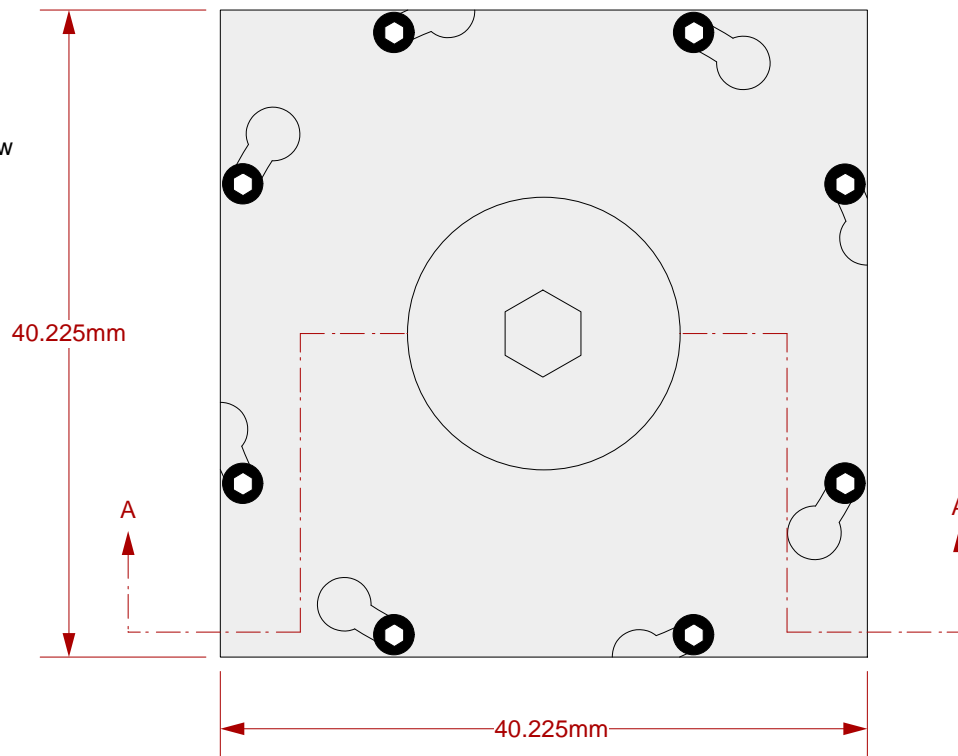


GHz BGA Socket - Direct mount, solderless

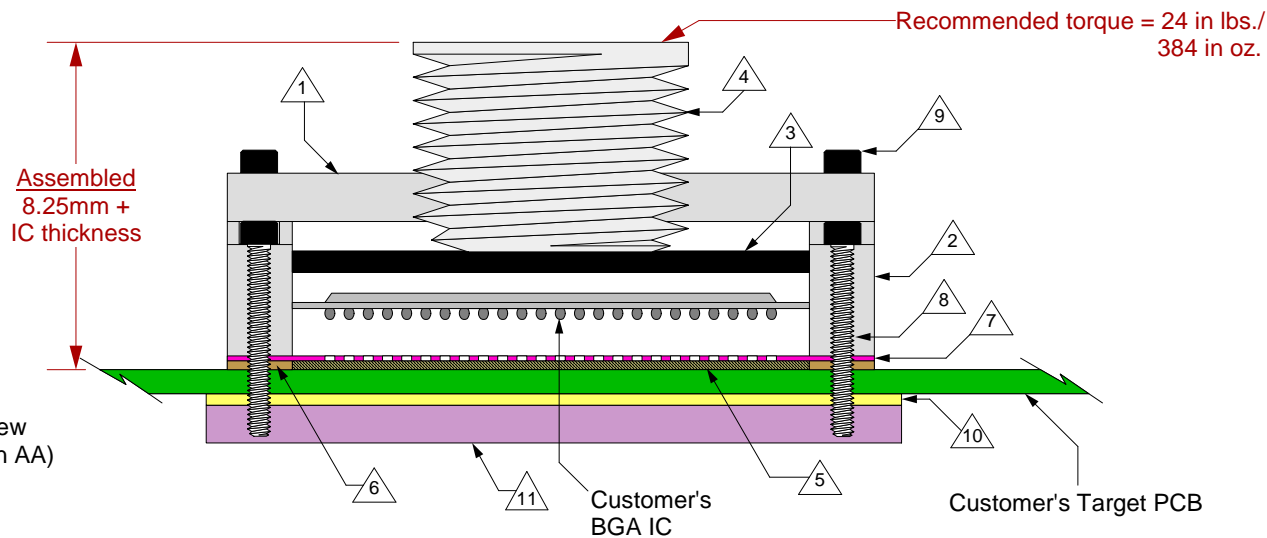
Features

- 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



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: 30 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.75mm.
- △ 6 Elastomer Guide: Cirlex or equivalent. Thickness = 0.75mm.
- △ 7 Ball Guide: Kapton polyimide.
- △ 8 Socket base screw: Socket head cap, 18-8 Stainless steel, 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-6062 Drawing

Status: Released

Scale: -

Rev: E

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Tele: (952) 229-8200
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Drawing: E Smolentseva

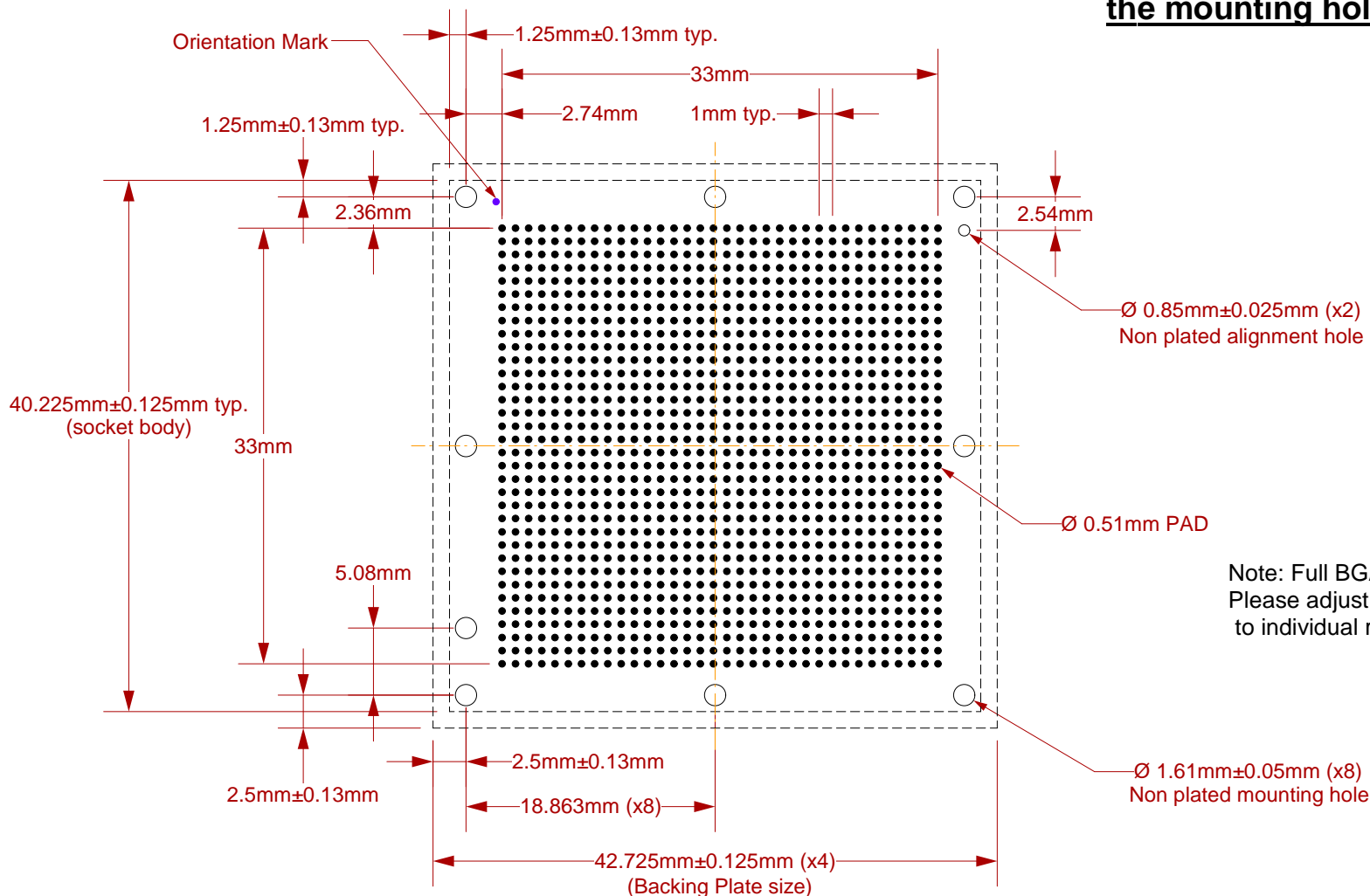
Date: 8/30/02

File: SG-BGA-6062 Dwg

Modified: 6/15/09, 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.

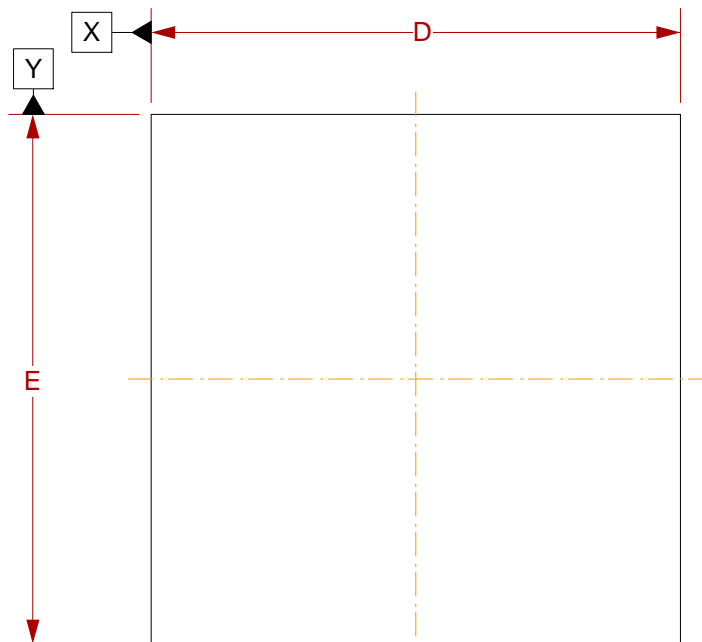
Target PCB Recommendations

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

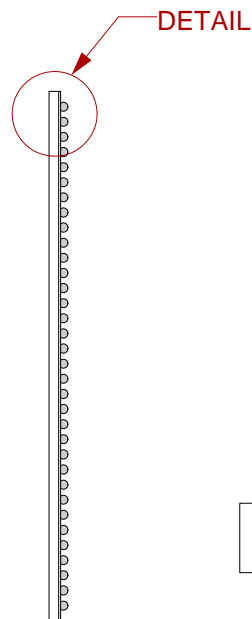
NOTE: Steel backing plate may be required based on end user's application

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

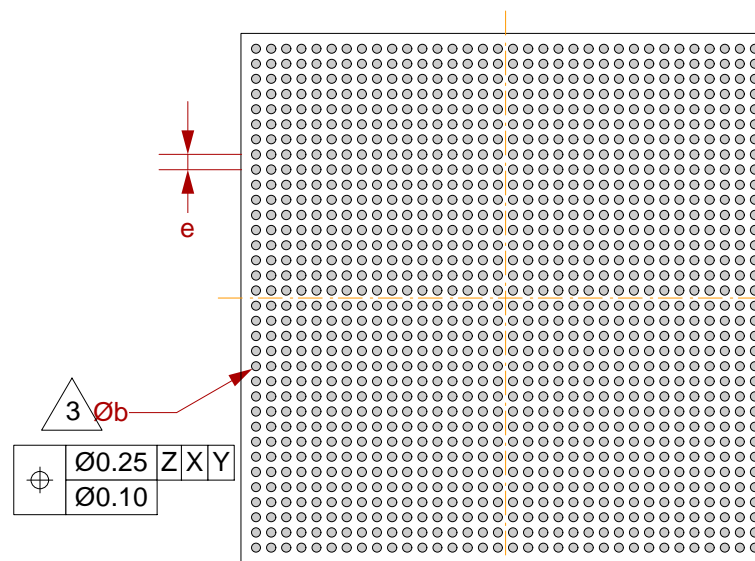
 <p>© 2009 IRONWOOD ELECTRONICS, INC. Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	<p>SG-BGA-6062 Drawing</p>	<p>Status: Released</p>	<p>Scale: -</p>	<p>Rev: E</p>
	<p>Drawing: E Smolentseva</p>	<p>Date: 8/30/02</p>		
	<p>File: SG-BGA-6062 Dwg</p>	<p>Modified: 6/15/09, AE</p>		



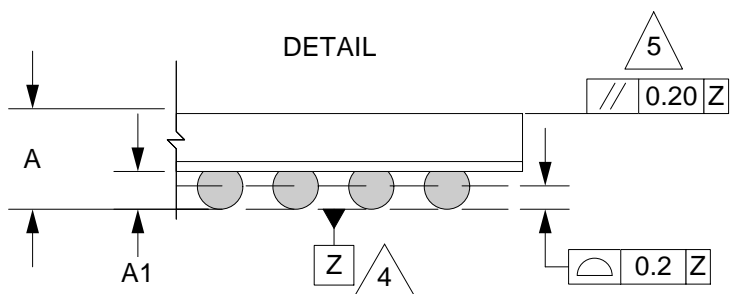
TOP VIEW



SIDE VIEW



BOTTOM VIEW




DETAIL

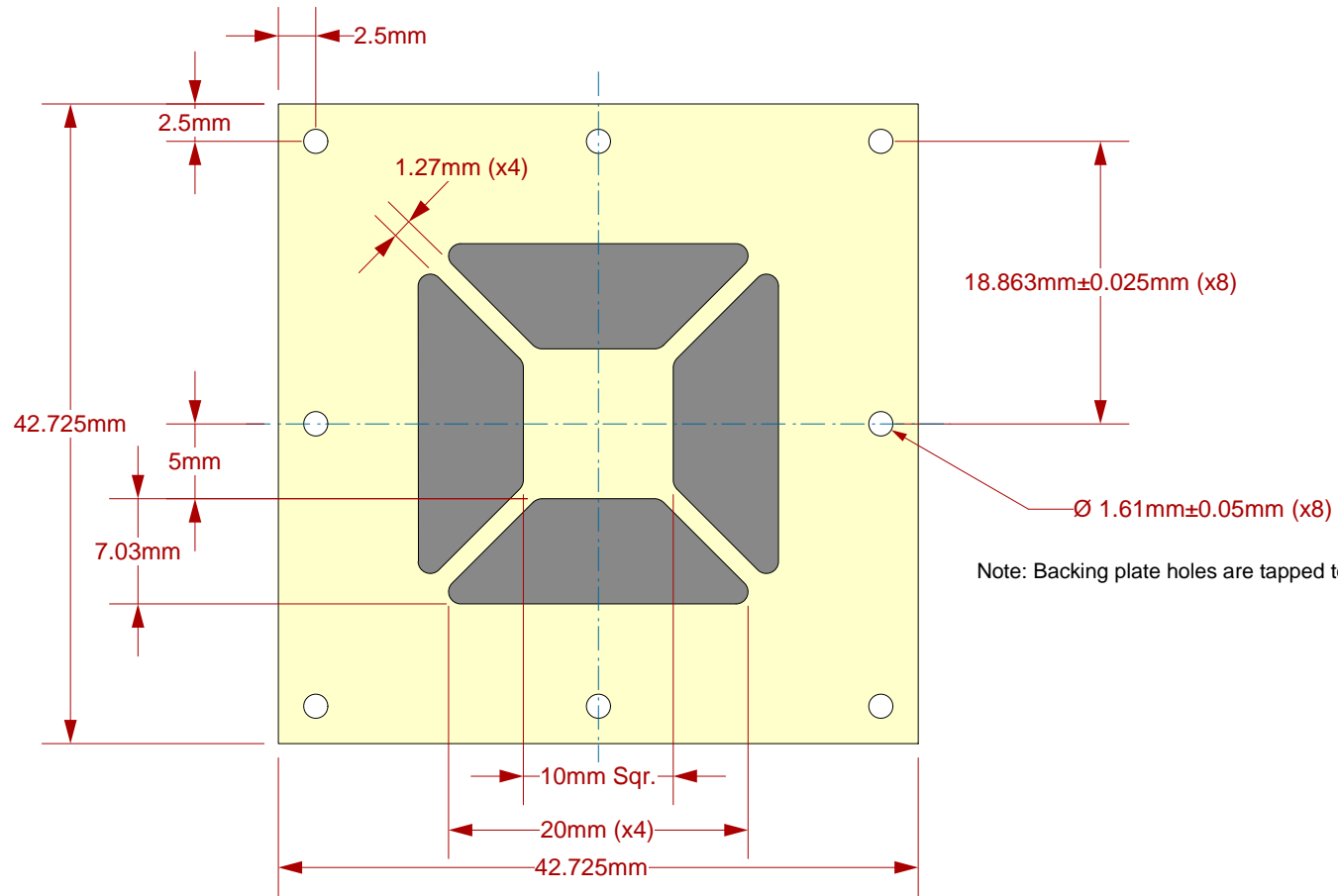
1. Dimensions are in millimeters.
 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- △ 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- △ 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- △ 5 Parallelism measurement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

DIM	MIN	MAX
A		2.42
A1	0.4	0.6
b	0.6	0.8
D	35.0 BSC	
E	35.0 BSC	
e	1.00 BSC	

Array 34x34

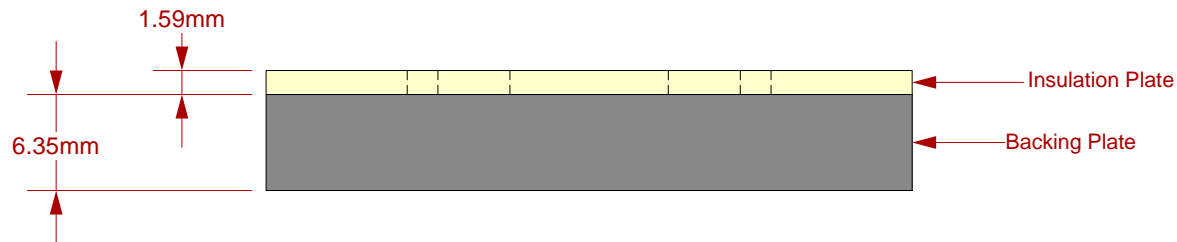
 <p>© 2009 IRONWOOD ELECTRONICS, INC. Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	SG-BGA-6062 Drawing	Status: Released	Scale: -	Rev: E
	Drawing: E Smolentseva		Date: 8/30/02	
	File: SG-BGA-6062 Dwg		Modified: 6/15/09, AE	

Top View




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

Side View



Description: Insulation Plate and Backing Plate

	SG-BGA-6062 Drawing	Status: Released	Scale: -	Rev: E
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		File: SG-BGA-6062 Dwg	Modified: 6/15/09, AE	

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