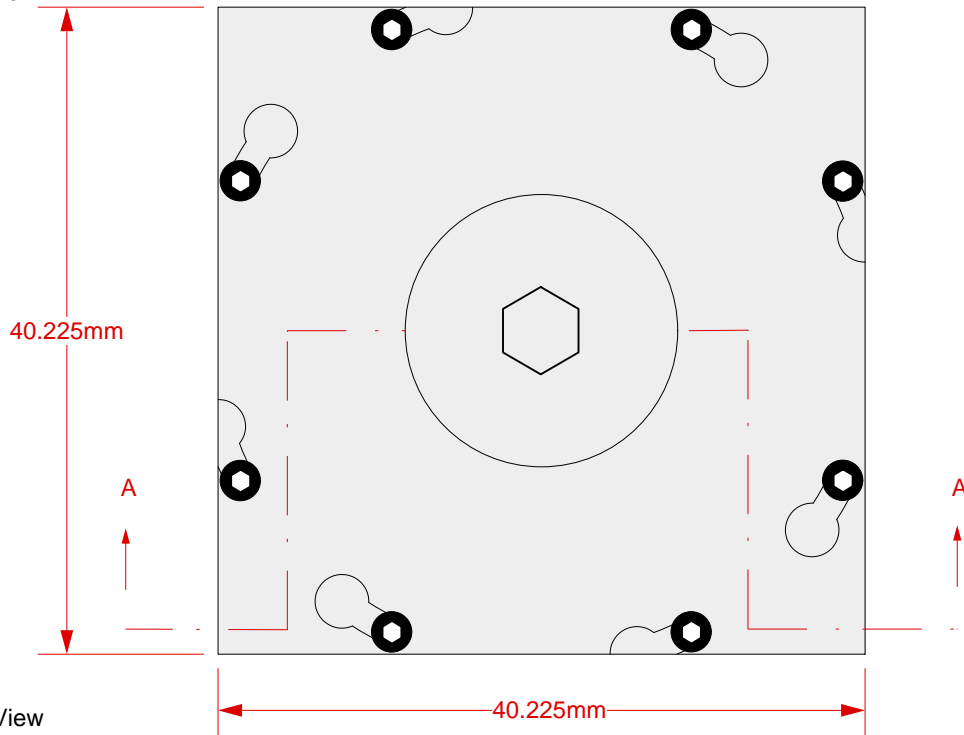


GHz BGA Socket - Direct mount, solderless

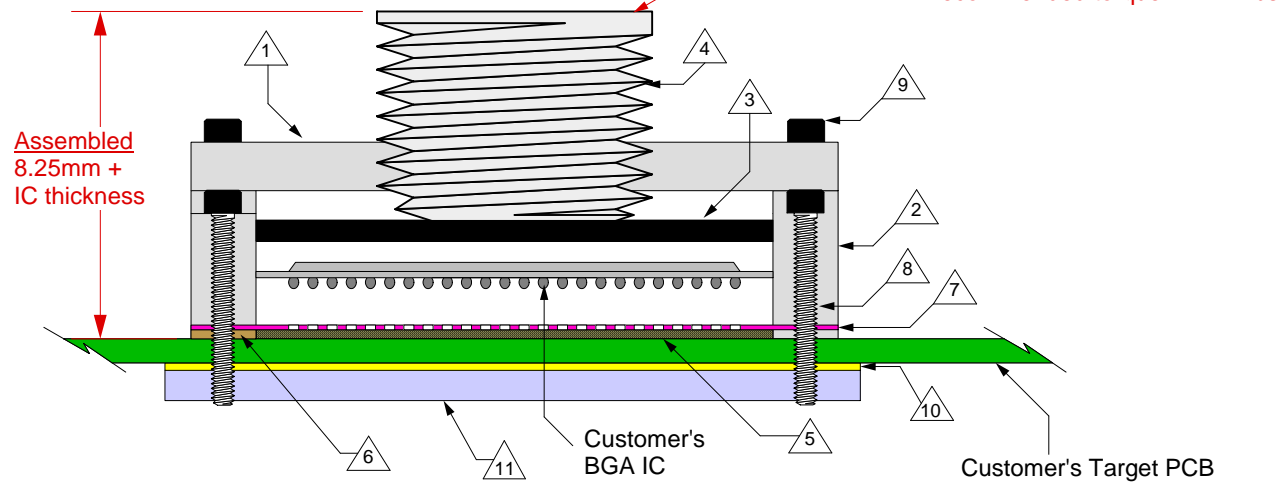
Features

- 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 = 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: Cirlex or equivalent. Thickness = 0.75mm.
- 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, 1.59mm thick.
- 11 Backing Plate: Black anodized Aluminum. Thickness = 6.35mm.

SG-BGA-6046 Drawing

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PO BOX 21151 ST. PAUL, MN 55121
Tele: (651) 452-8100
www.ironwoodelectronics.com

Status: Released

Scale: -

Rev: F

Drawing: H. Hansen

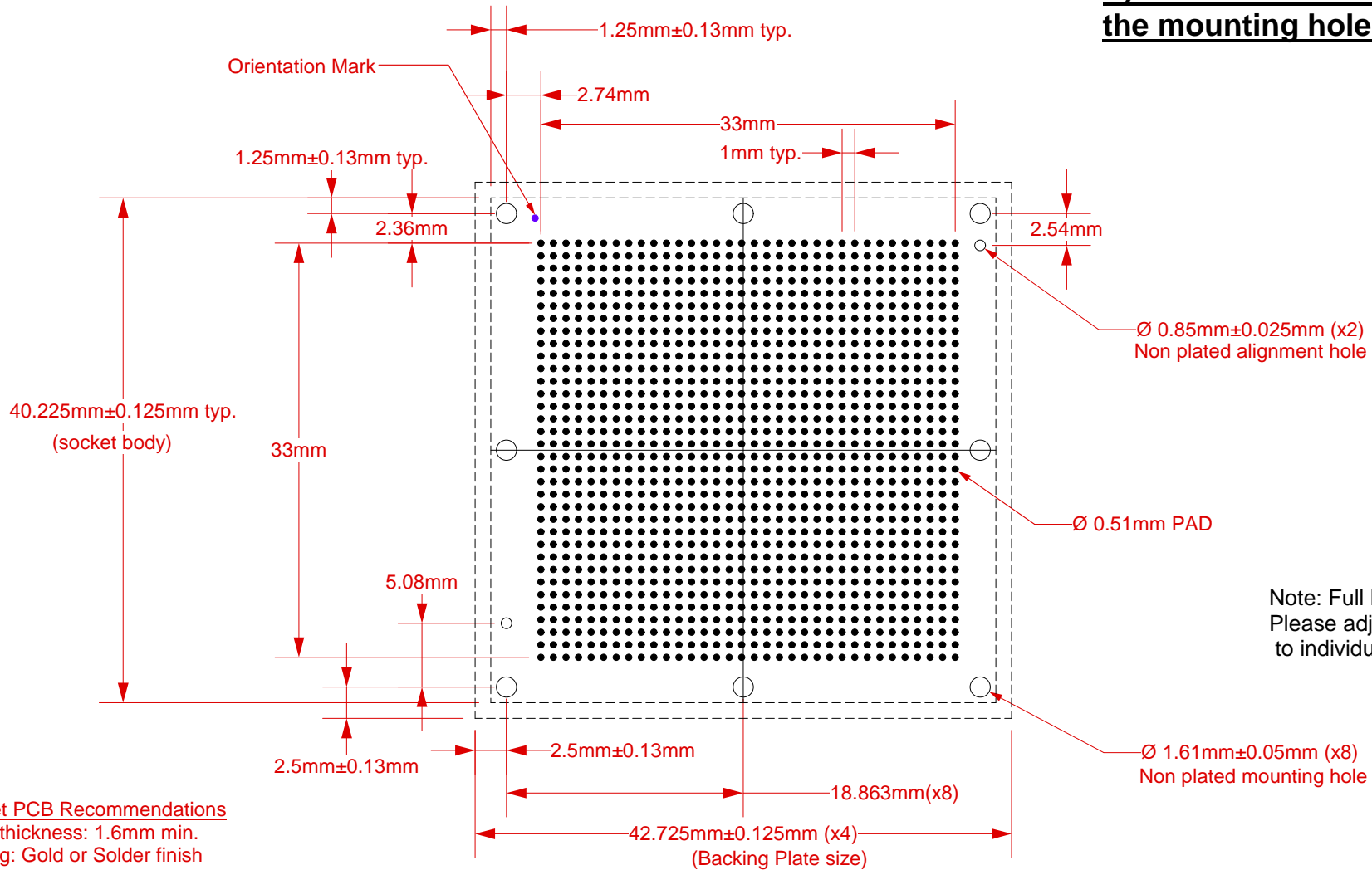
Date: 4/17/02

File: SG-BGA-6046 Dwg.mcd

Modified: 5/19/09

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

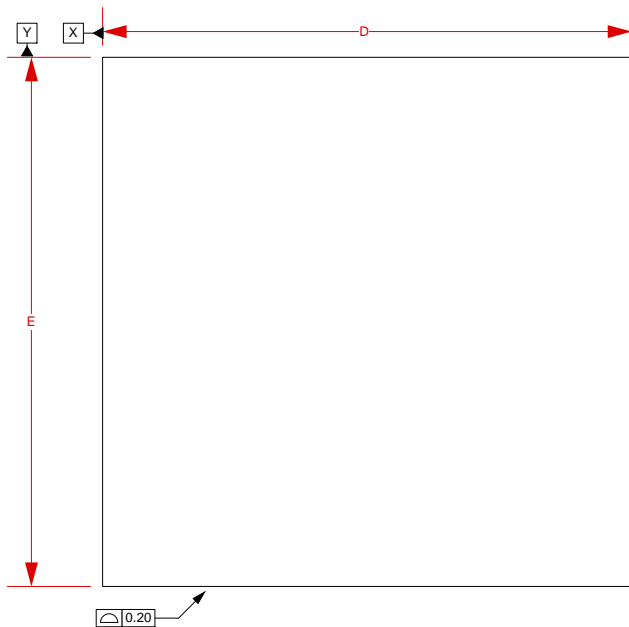
Total thickness: 1.6mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

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

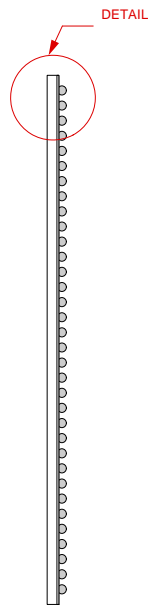
Recommended PCB Layout Tolerances: $\pm 0.025\text{mm}$ [$\pm 0.001''$] unless stated otherwise.

	SG-BGA-6046 Drawing	Status: Released	Scale: -	Rev: F
	© 2002 IRONWOOD ELECTRONICS, INC. PO BOX 21151 ST. PAUL, MN 55121 Tele: (651) 452-8100 www.ironwoodelectronics.com	Drawing: H. Hansen		Date: 4/17/02
		File: SG-BGA-6046 Dwg.mcd		Modified: 5/19/09

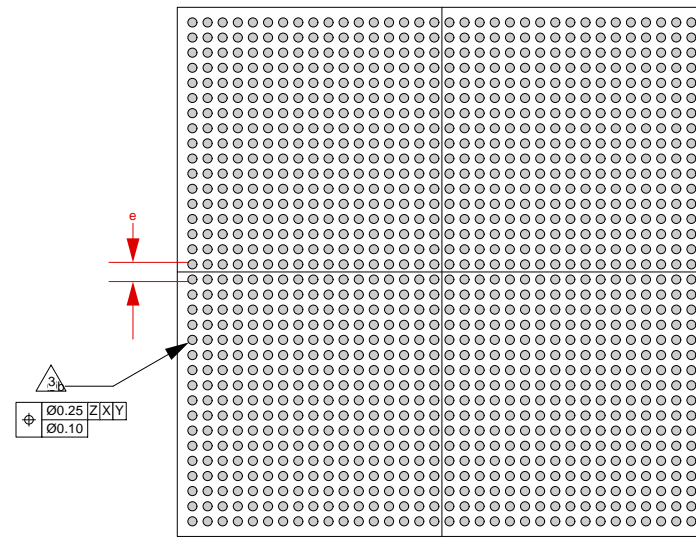
Compatible BGA Spec



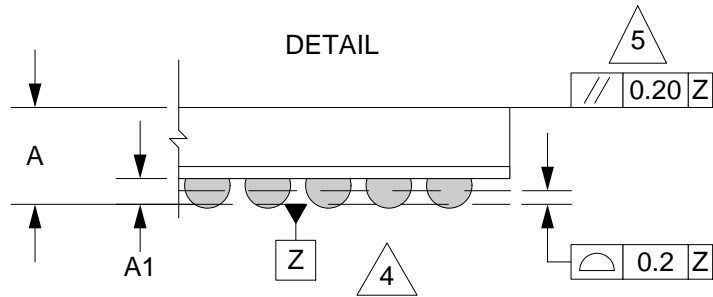
TOP VIEW



SIDE VIEW




BOTTOM VIEW



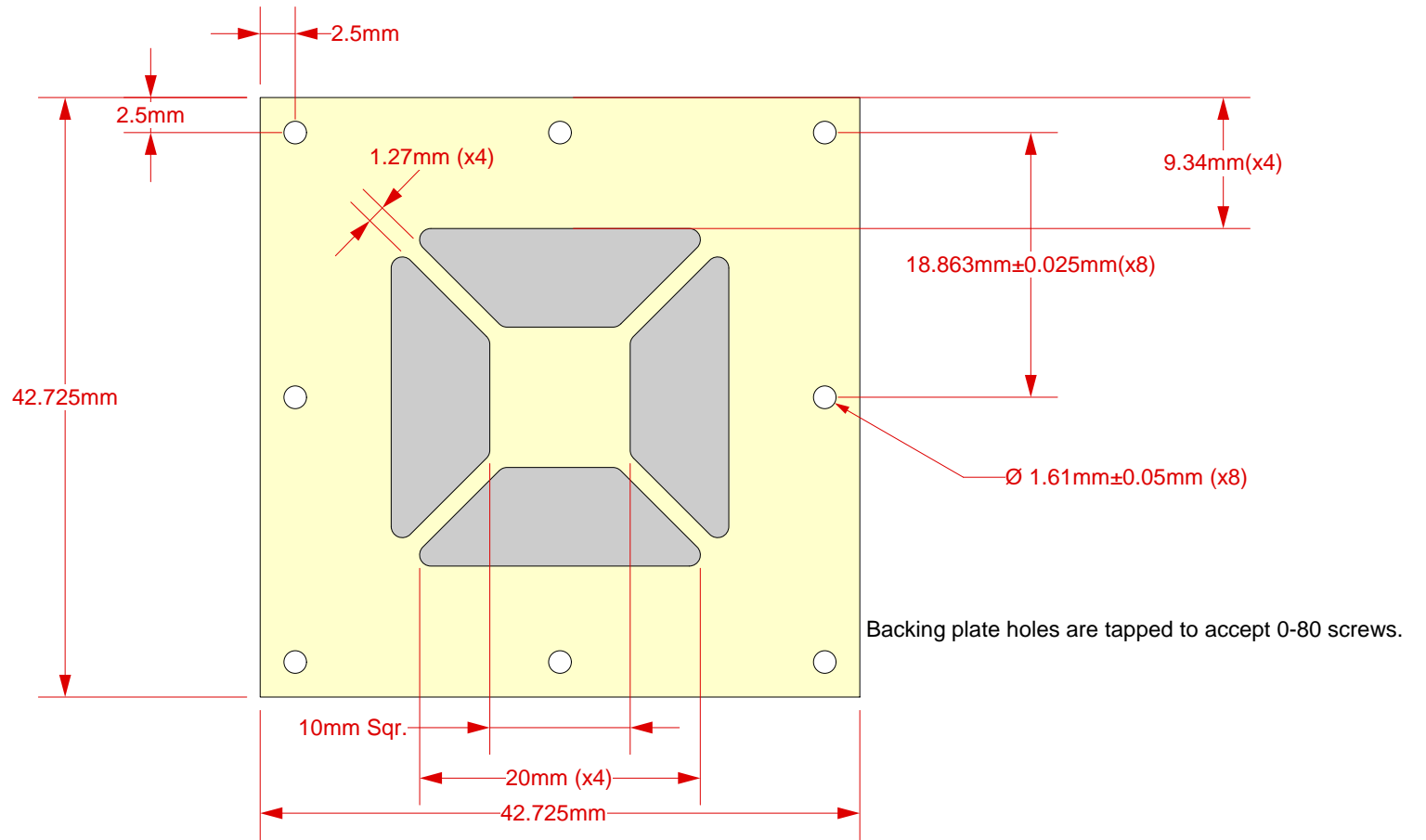
1. Dimensions are in millimeters.
 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- △3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
 - △4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
 - △5 Parallelism measurement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

DIM	MIN	MAX
A		3.4
A1	0.4	0.6
b	0.5	0.7
D	35.0 BSC	
E	35.0 BSC	
e	1.00 BSC	

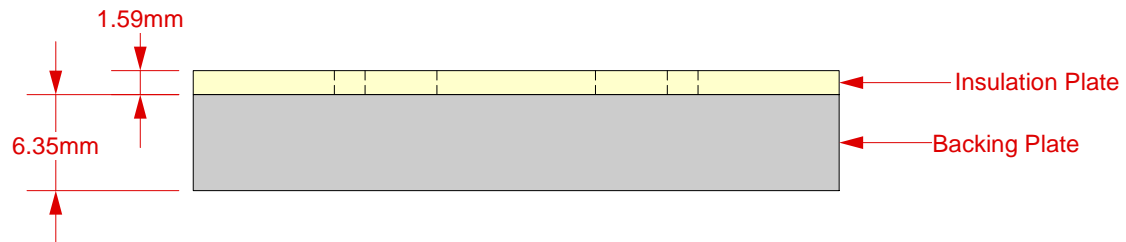
Array 34x34

	SG-BGA-6046 Drawing	Status: Released	Scale: -	Rev: F
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Top View



Side View



Description: Insulation Plate and Backing Plate

SG-BGA-6046 Drawing

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