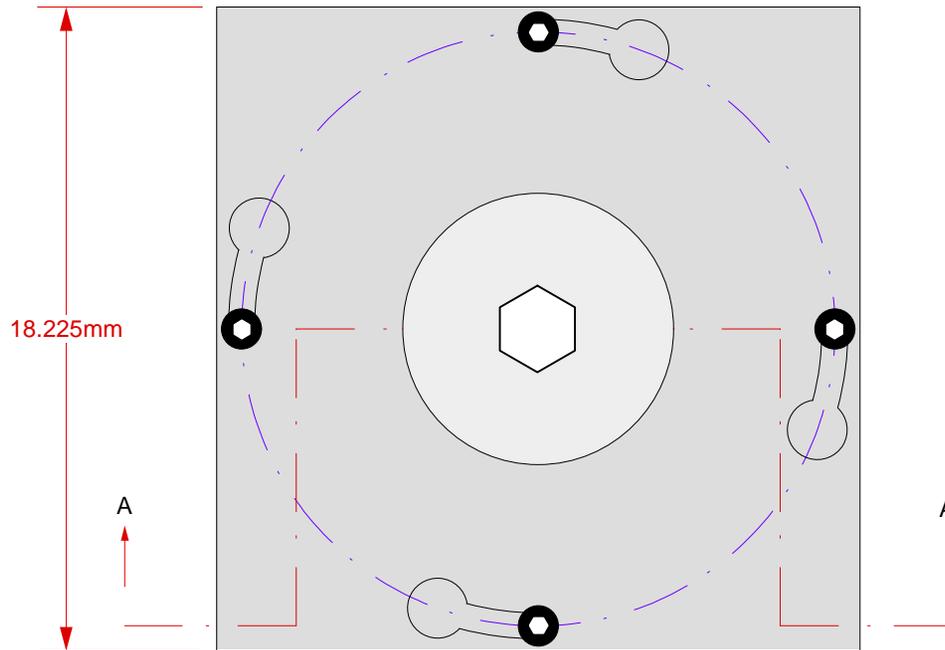
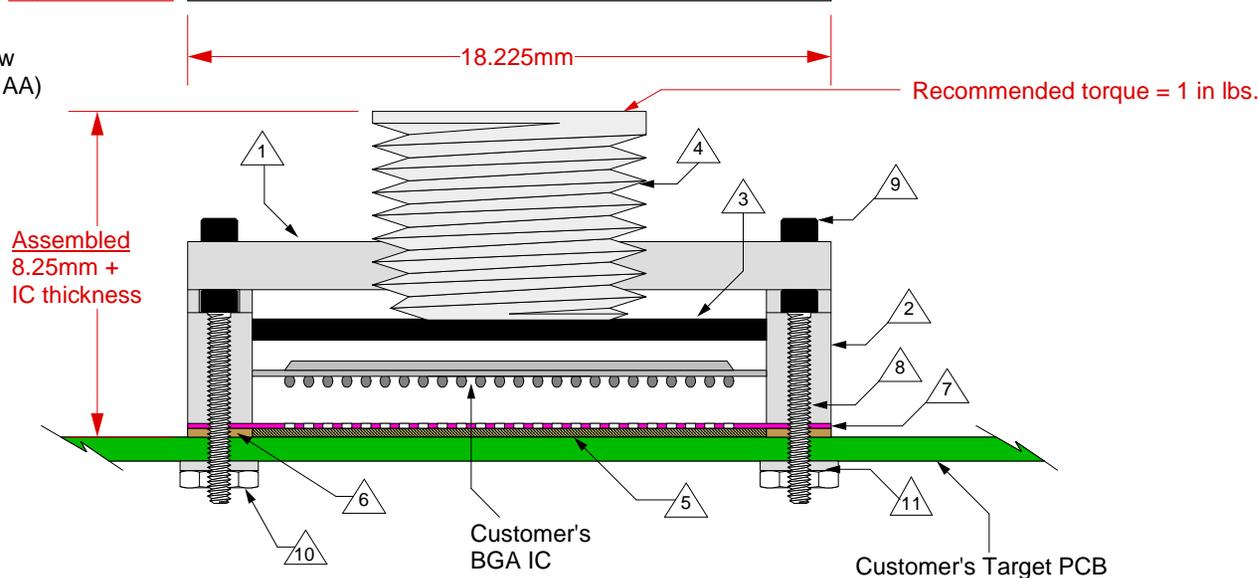


Top View



Side View
(Section AA)



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 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, 9.525mm long.
- △ 9 Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.
- △ 10 Socket base nut: 18-8 Stainless steel, 0-80 fine thread.
- △ 11 Nylon washer: 1.73mm ID; 4.78mm OD
0.64mm thickness.

SG-BGA-6002 Drawing

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

Status: Released

Scale: -

Rev: H

Drawing: Meghann Fedde

Date: 8/15/01

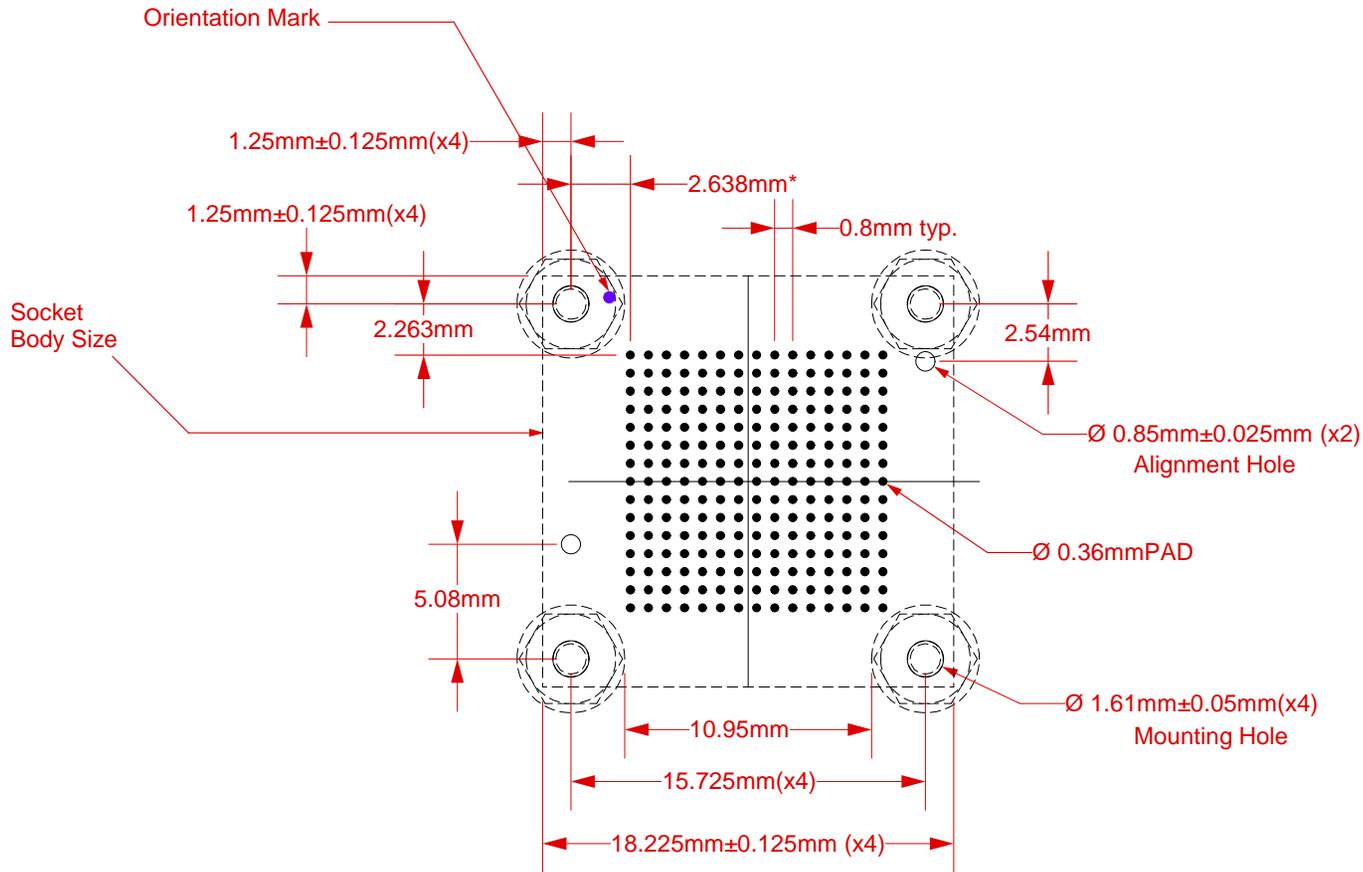
File: SG-BGA-6002 Dwg.mcd

Modified: 6/12/09, AE

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

Recommended PCB Layout
Top View

***Note: BGA pattern is not symmetrical with respect to the mounting holes.**



Target PCB Recommendations

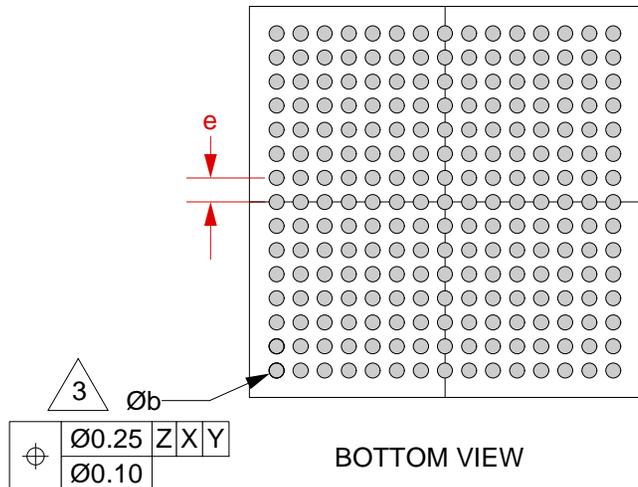
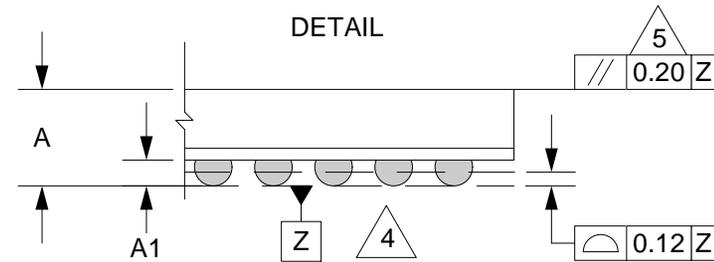
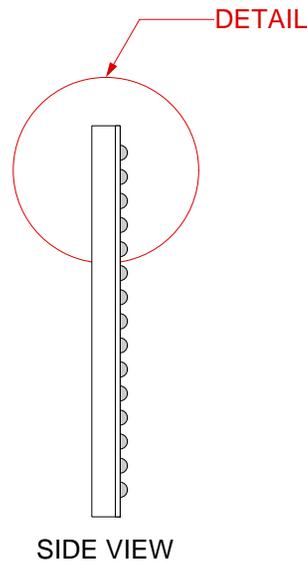
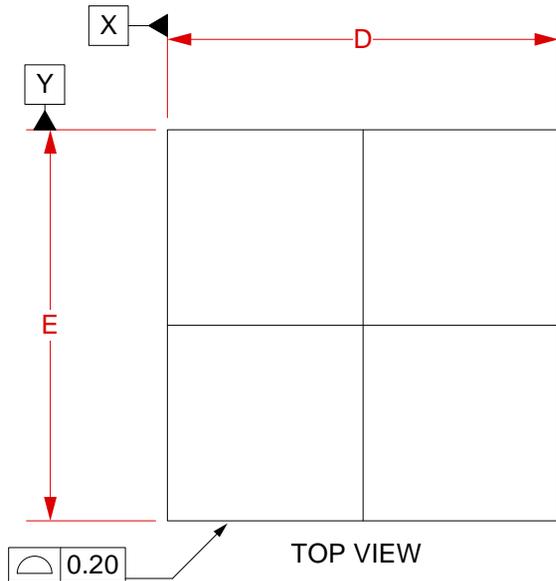
Total thickness: 1.6mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

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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	<p>Drawing: Meghann Fedde</p>		<p>Date: 8/15/01</p>		
	<p>File: SG-BGA-6002 Dwg.mcd</p>		<p>Modified: 6/12/09, 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	0.25	0.4
b		0.55
D	13.00 BSC	
E	13.00 BSC	
e	0.80 BSC	

Array 15x15

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	Drawing: Meghann Fedde	Date: 8/15/01		
	File: SG-BGA-6002 Dwg.mcd	Modified: 6/12/09, AE		