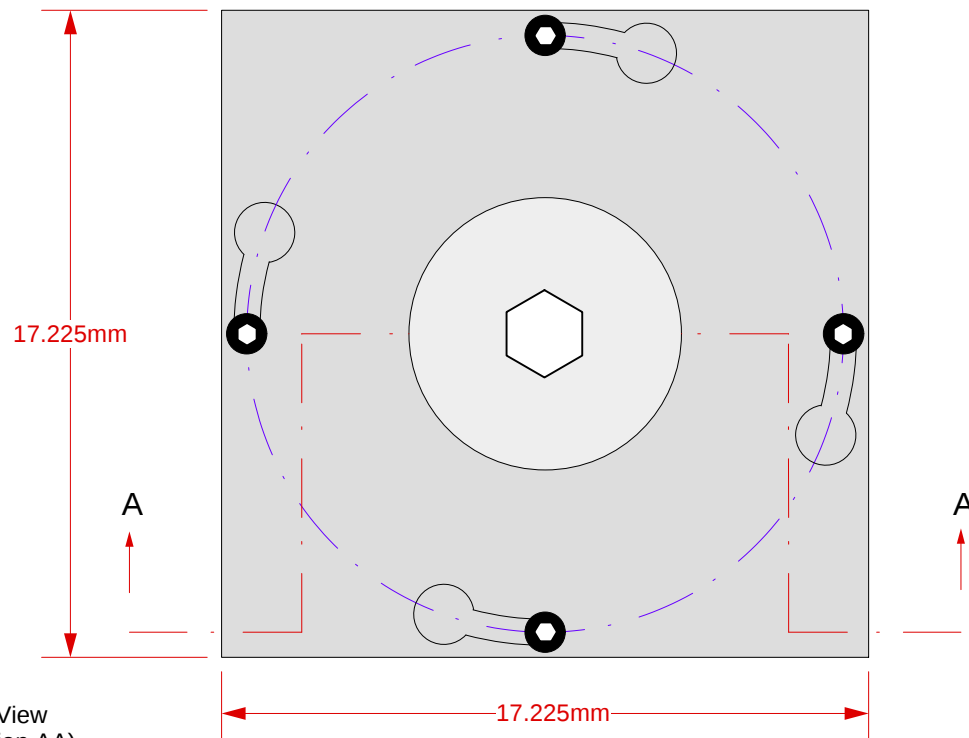
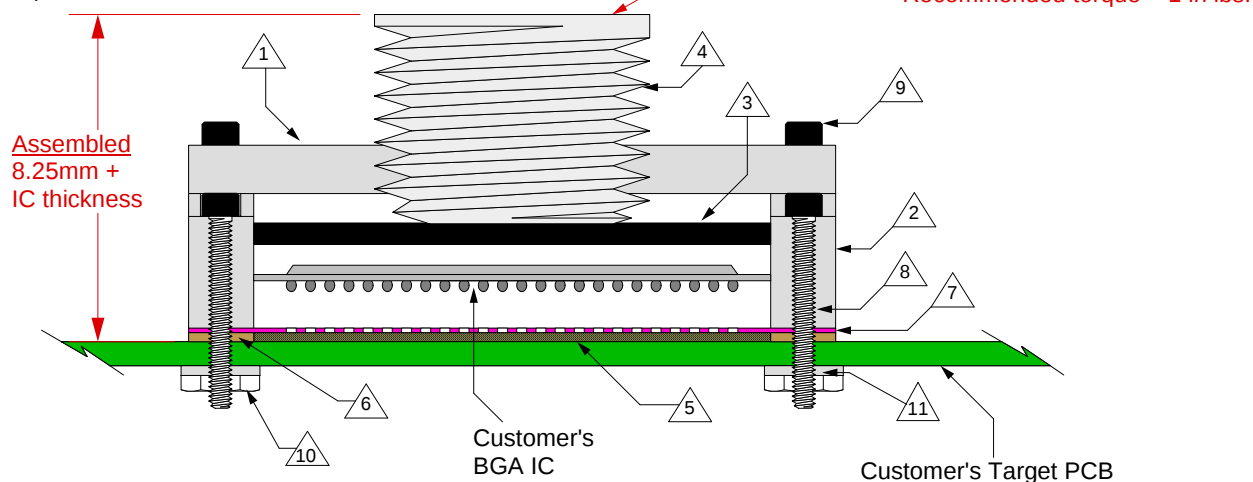


Top View



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-6001 Drawing

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11351 Rupp Drive, Suite 400, Burnsville, MN 55337
Tele: (952) 229-8200
www.ironwoodelectronics.com

Status: Released

Scale: -

Rev: F

Drawing: Ila Pal

Date: 8/14/01

File: SG-BGA-6001 Dwg.mcd

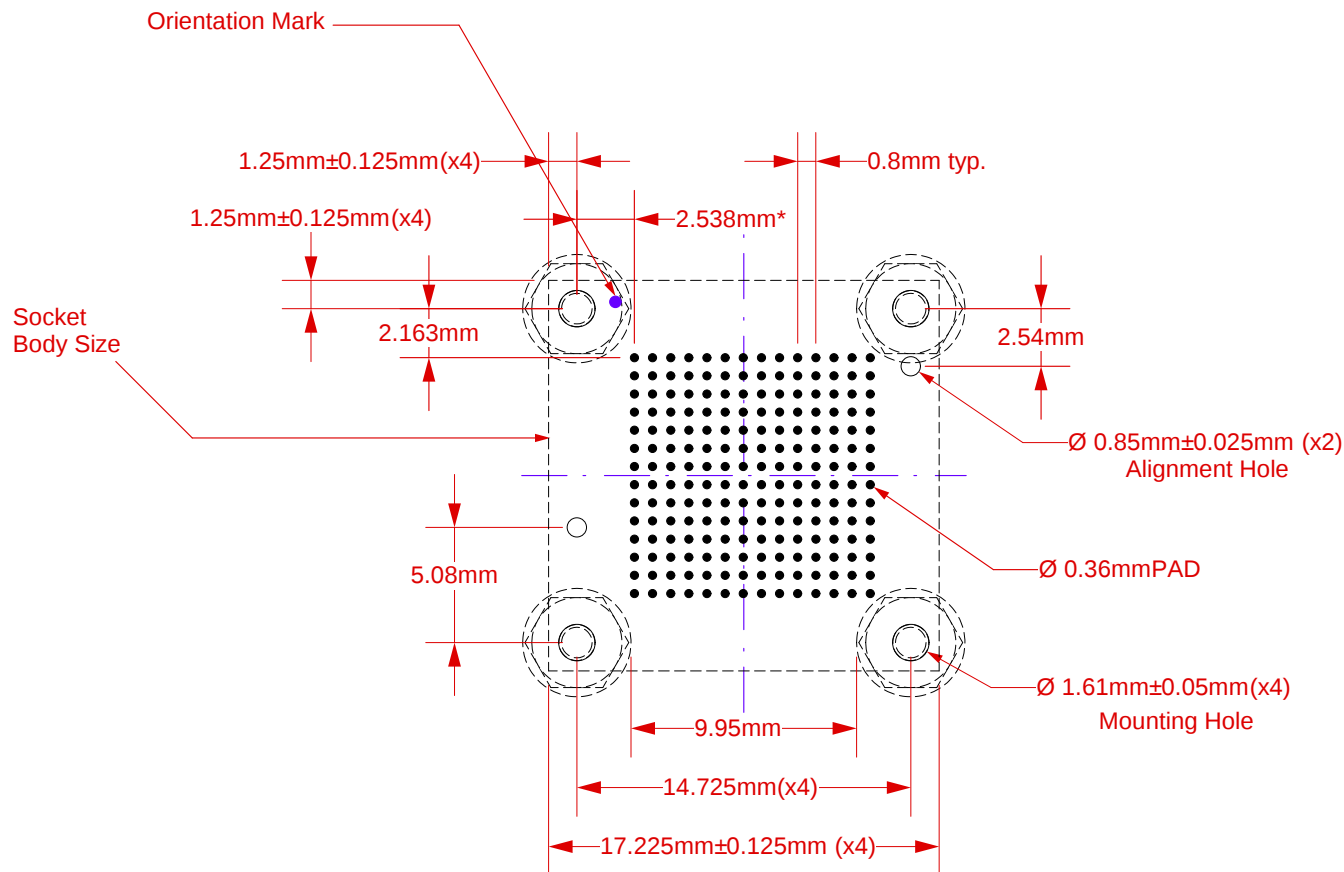
Modified: 6/12/09, AE

All tolerances: $\pm 0.125\text{mm}$ (unless stated otherwise). Materials and specifications are subject to change without notice.

PAGE 1 of 3

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

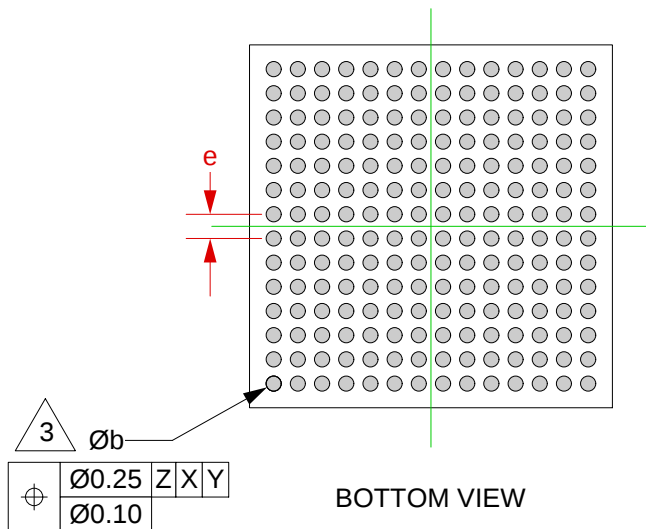
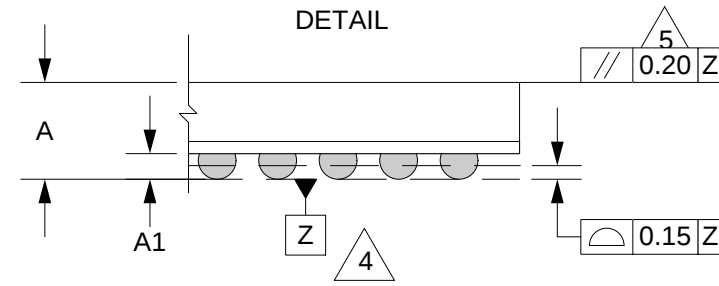
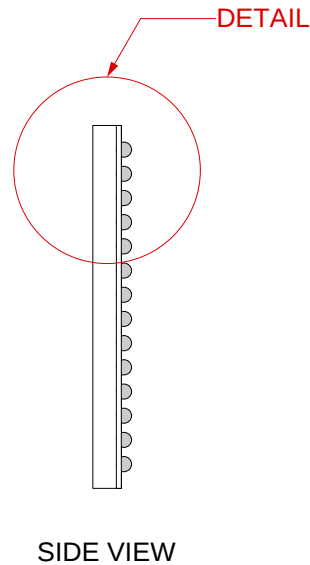
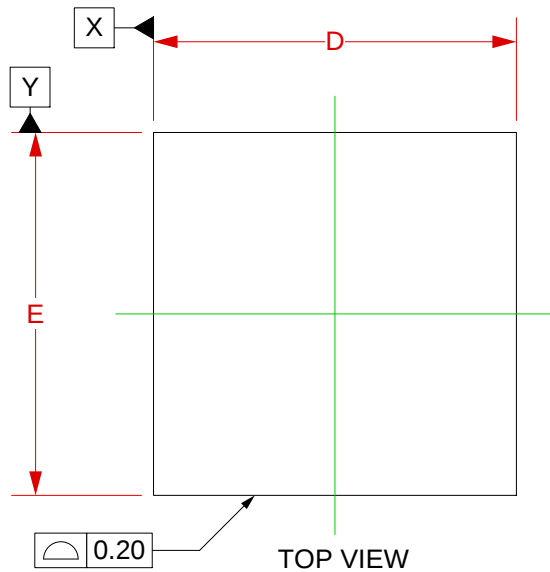
PCB Pad height: Same or higher than solder mask

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.

SG-BGA-6001 Drawing	Status: Released	Scale: 3:1	Rev: F
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	File: SG-BGA-6001 Dwg.mcd	Modified: 6/12/09, AE	

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	0.2	0.34
b		0.50
D	12.00 BSC	
E	12.00 BSC	
e	0.80 BSC	

Array 14x14

SG-BGA-6001 Drawing

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