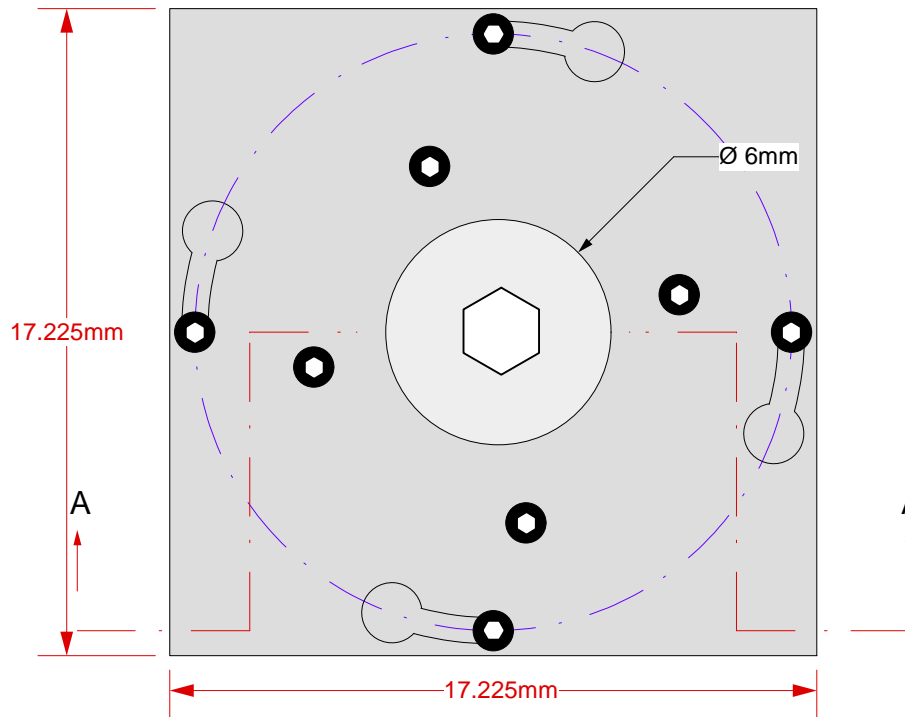


GHz BGA Socket - Direct mount, solderless

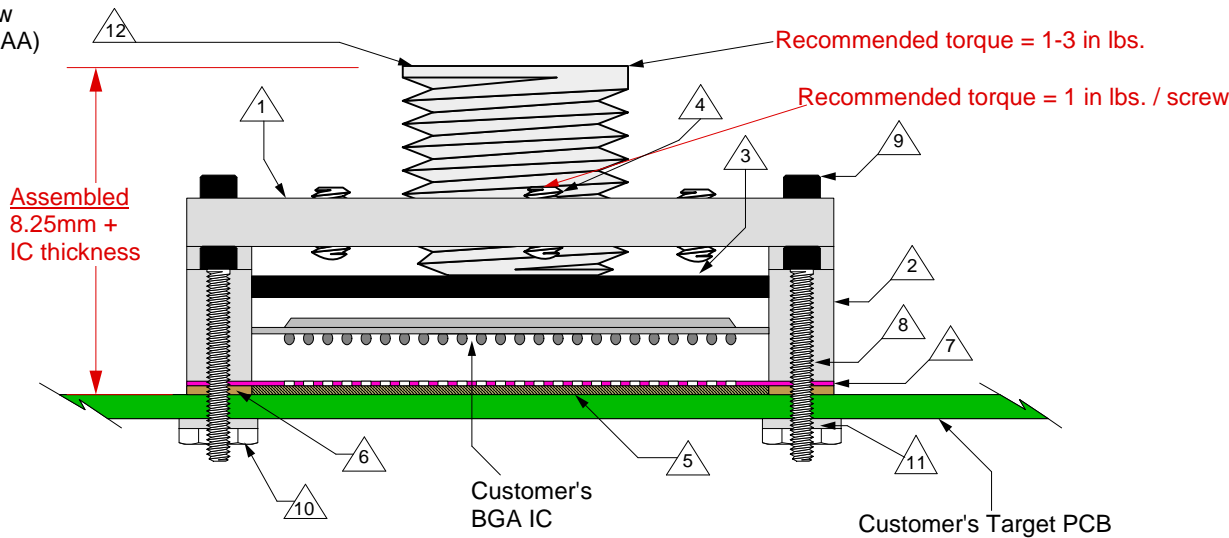
Top View



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

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. (x2) |
| 4 | Compression screw: Black anodized Aluminum.
3-48 thread (x4) |
| 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 = 0.75mm. |
| 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 | Socket base nut: 18-8 Stainless steel, 0-80 fine thread. |
| 11 | Nylon washer: 1.73mm ID; 4.78mm OD
0.64mm thickness. |
| 12 | Compression screw: Black anodized Aluminum.
Thickness = 5mm, Hex socket = 3mm. |

SG-BGA-6152 Drawing

Status: Preliminary

Scale: -

Rev: C



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Drawing: M.A.Fedde

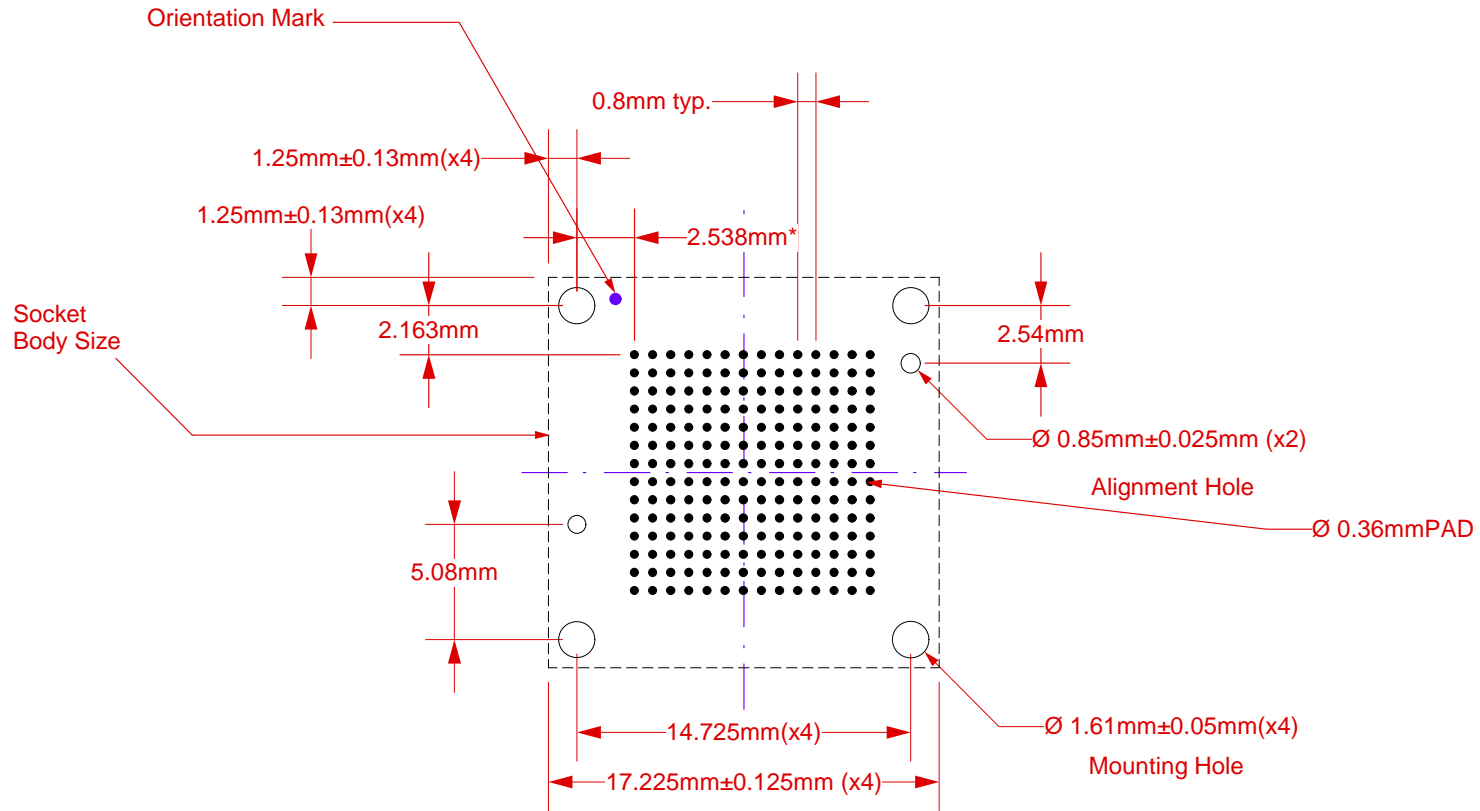
Date: 4/14/05

File: SG-BGA-6152 Dwg.mcd

Modified: 6/12/09, AE

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

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




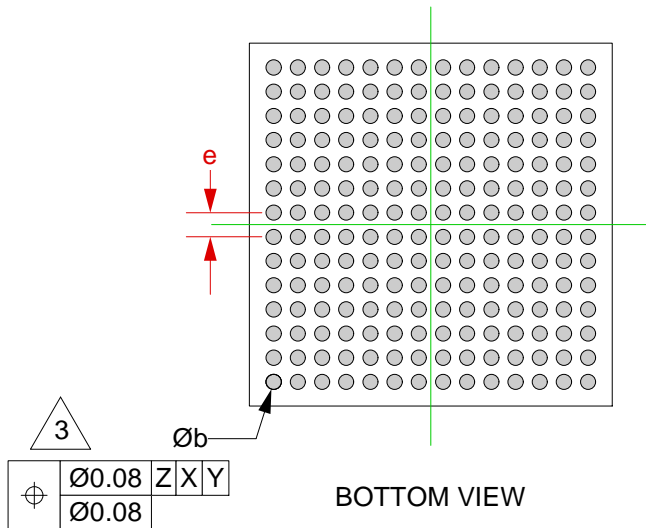
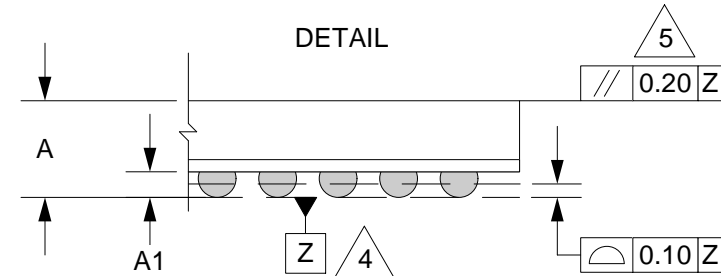
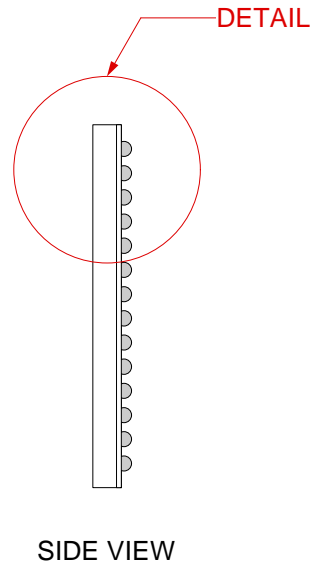
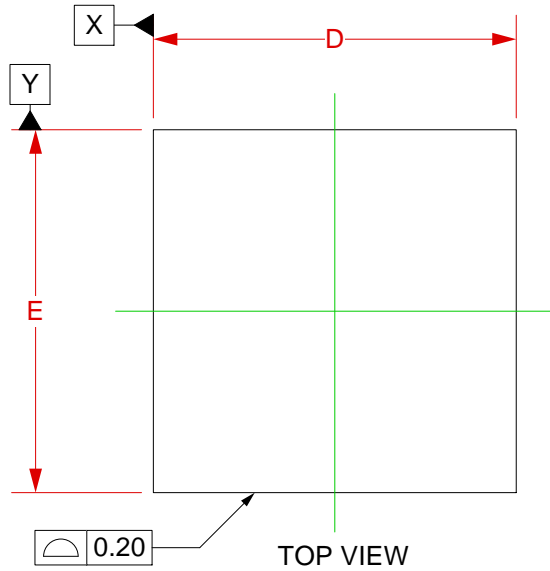
Target PCB Recommendations

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: ±0.025mm [±0.001"] unless stated otherwise.

<p>SG-BGA-6152 Drawing</p>	<p>Status: Preliminary</p>	<p>Scale: 3:1</p>	<p>Rev: C</p>
 <p>© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	<p>Drawing: M.A.Fedde</p>		<p>Date: 4/14/05</p>
	<p>File: SG-BGA-6152 Dwg.mcd</p>		<p>Modified: 6/12/09, AE</p>



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		1.4
A1	0.35	0.45
b		0.55
D	12.00 BSC	
E	12.00 BSC	
e	0.80 BSC	

Array 14x14

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	<p>Drawing: M.A.Fedde</p>	<p>Date: 4/14/05</p>		
	<p>File: SG-BGA-6152 Dwg.mcd</p>	<p>Modified: 6/12/09, AE</p>		