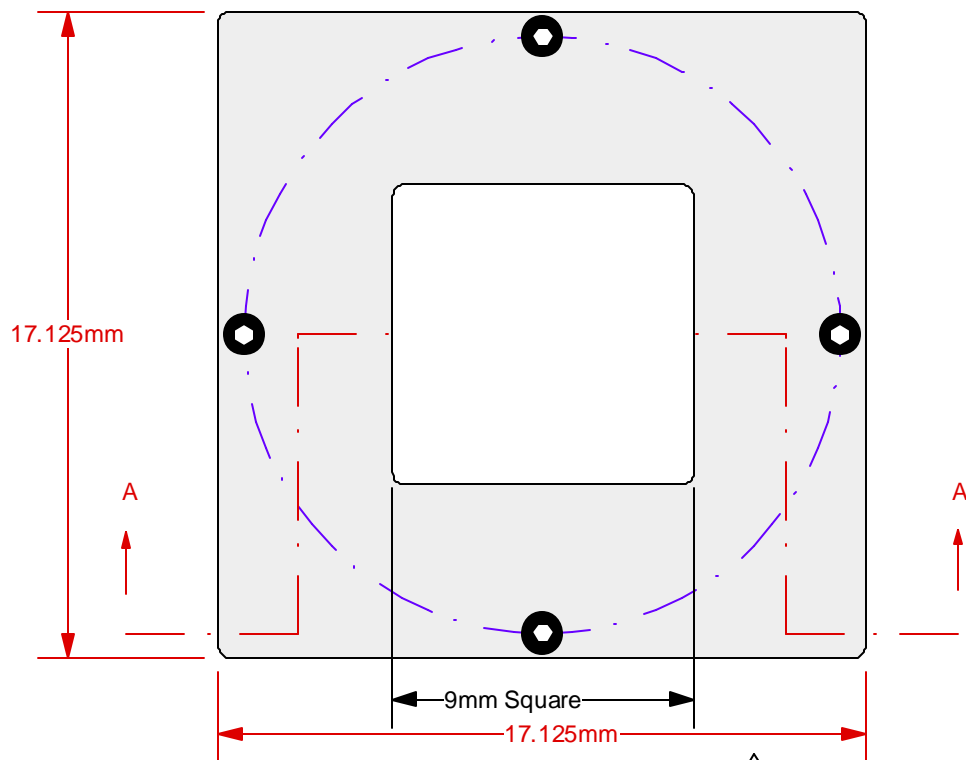


Top View

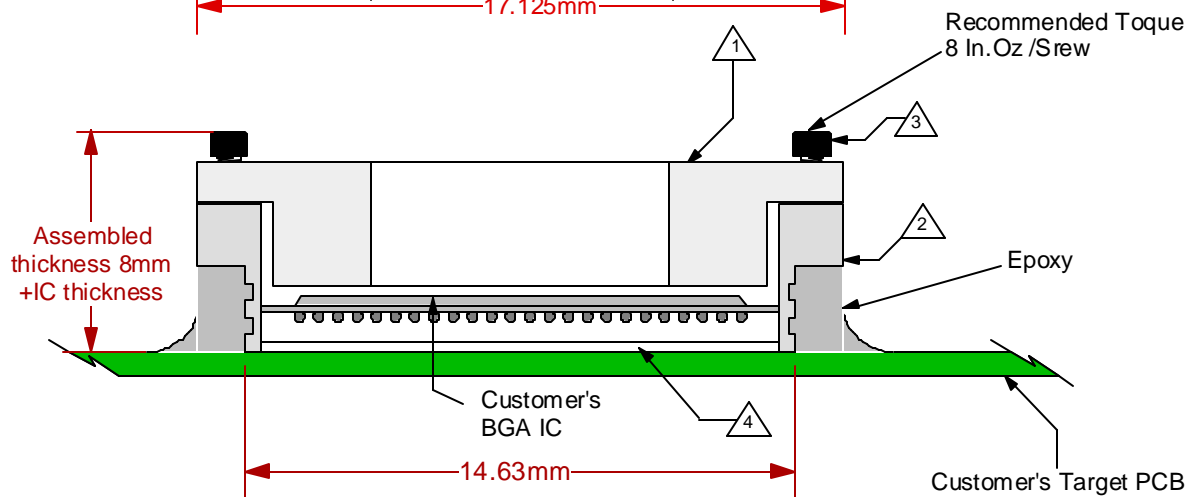


GHz BGA Socket - Epoxy mount, solderless


Features

- Directly mounts to target PCB (needs epoxy) .
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Easily removable socket lid

- △ 1 Socket Lid/ Compression Plate: Black anodized Aluminum. Thickness = 2.5mm.
- △ 2 Socket base: Black anodized Aluminum. Thickness = 5mm.
- △ 3 Socket lid screw: Socket head cap, Alloy steel with black oxide finish, 0-80 fine thread , 4.76mm long.
- △ 4 Elastomer: 20 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.5mm.

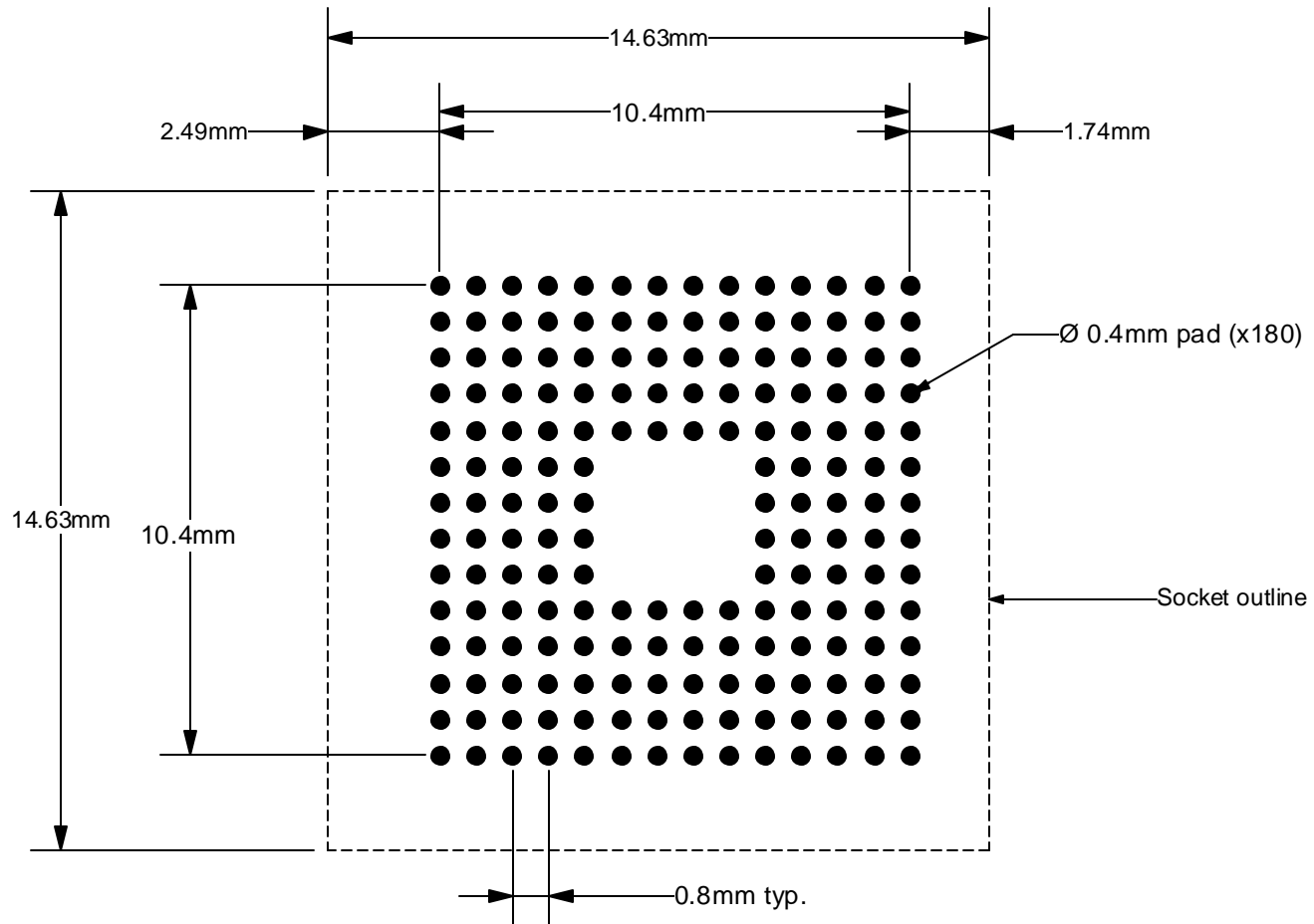


Note: Alignment guide for positioning socket base to target PCB will be supplied.

 <p>© 2006 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	SG-BGA-6216 Drawing		Status: Released	Scale: —	Rev: B
	Drawing: J. Glab		Date: 1/19/07		
	File: SG-BGA-6216 Dwg		Modified: 06/03/08		

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

Recommended PCB Layout
Top View




Target PCB Recommendations

Total thickness: 1.6mm min.

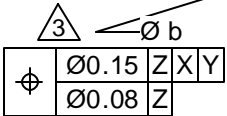
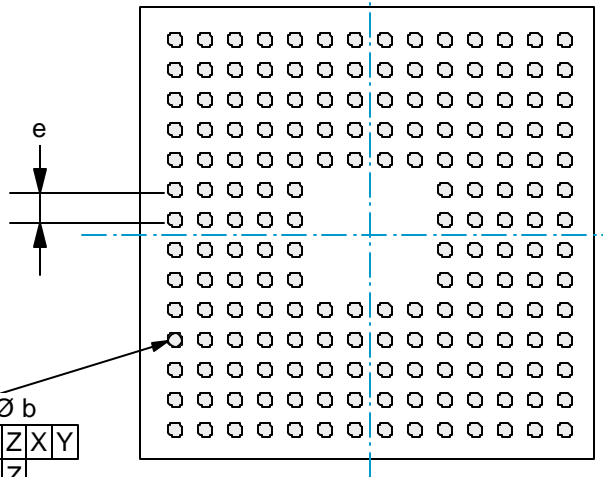
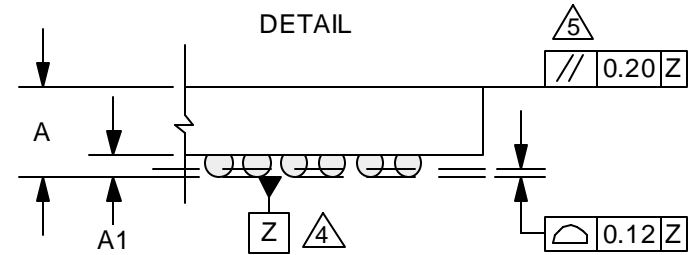
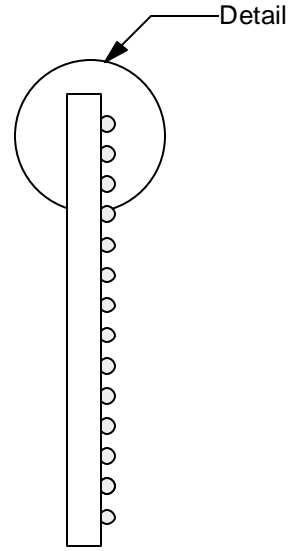
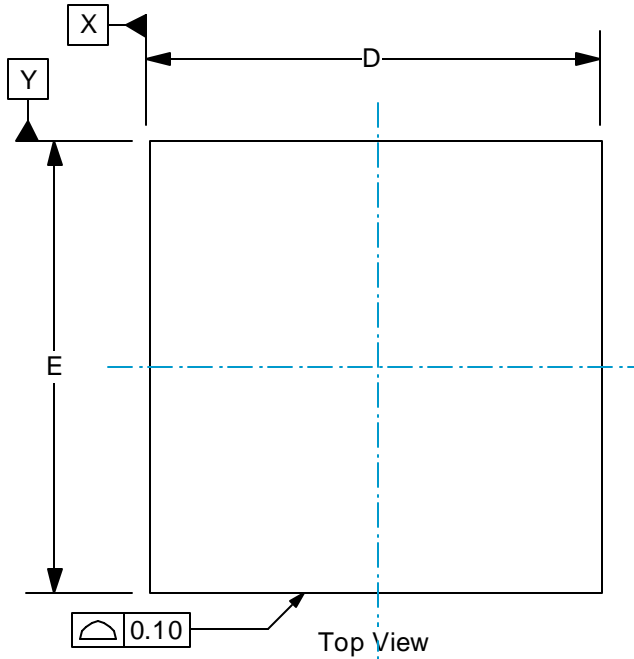
Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

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

SG-BGA-6216 Drawing		Status: Released	Scale: -	Rev: B
 <p>© 2006 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	Drawing: J. Glab		Date: 1/19/07	
	File: SG-BGA-6216 Dwg		Modified: 06/03/08	

Compatible BGA Spec.



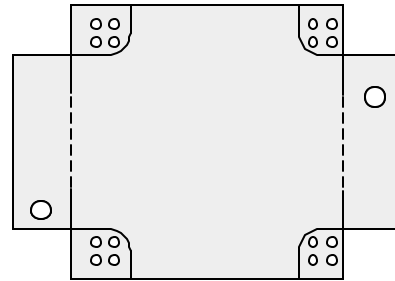
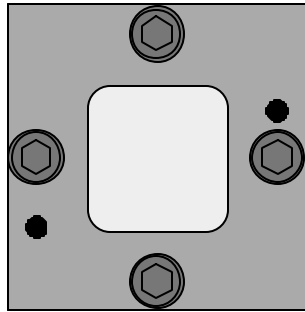
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.

- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- Parallelism measurement shall exclude any effect of mark on top surface of package.

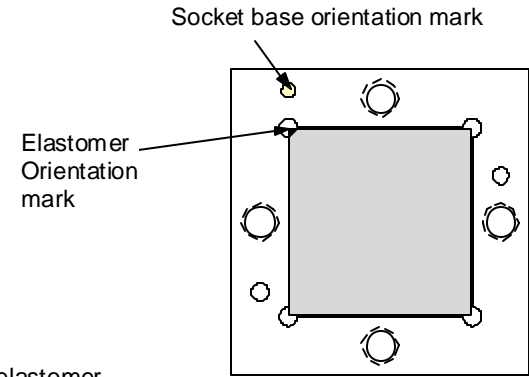
DIM	MIN	MAX
A		2.5
A1	0.25	0.35
b	0.35	0.45
D	12.0 BSC	
E	12.0 BSC	
e	0.8 BSC	

14 x 14 array

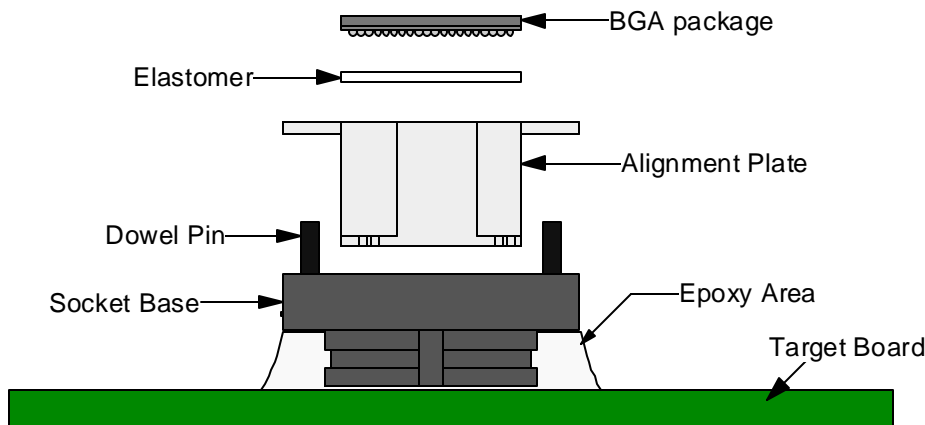
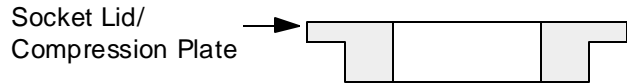
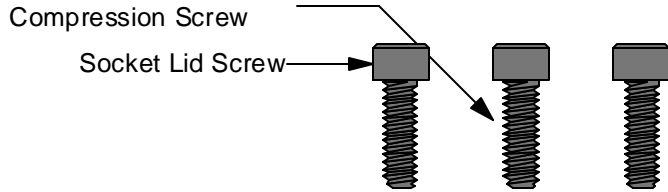
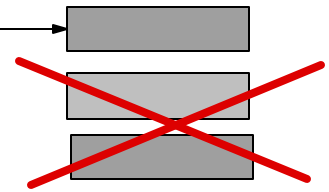
<p>© 2006 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	<p>SG-BGA-6216 Drawing</p>	Status: Released	Scale: -	Rev: B
	Drawing: J. Glab		Date: 1/19/07	
	File: SG-BGA-6216_Dwg		Modified: 06/03/08	



Top View Alignment Plate




When elastomer orientation mark is on upper left corner, side view of elastomer should be



User Instructions:

1. Insert alignment plate into the socket base. Place alignment plate + socket base assembly onto target board.
2. Align holes on alignment plate with four corner pads on target board, hold socket base on to board tightly with finger and put a drop of super glue on each corner. Let it dry, remove the alignment plate, then run a bead of epoxy around socket base and let it cure until the epoxy is hardened. Recommended epoxy: DP110 (3M brand, 9 min work life). Other equivalent epoxies can be substituted. Cure at room temperature. **Note: Do not cure in the oven.**
3. Place elastomer inside the socket base cavity (direction and orientation are critical) as shown above.
4. Place BGA package and compression plate into the socket base cavity.
5. Assemble socket lid/compression plate onto socket base with socket lid screws.
6. Apply recommended torque to the lid screws.

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	<p>Drawing: J. Glab</p>		<p>Date: 1/19/07</p>		
	<p>File: SG-BGA-6216 Dwg</p>		<p>Modified: 06/03/08</p>		