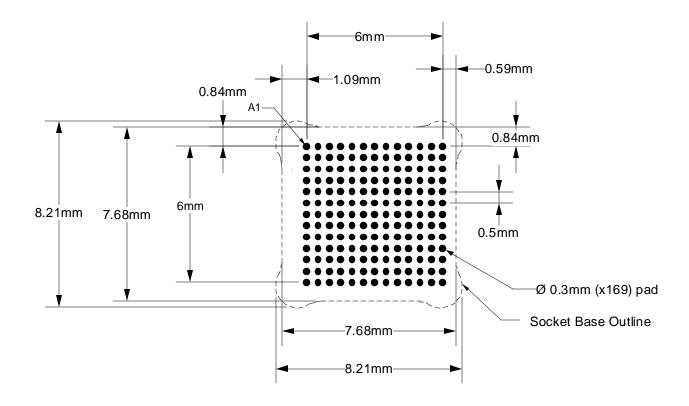


SG-BGA-7141 Drawing	Status: Released	Scale: -		Rev: B	
© 2008 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Ste 400 Burnsville, MN 55337	'   Diawing, E Singleniseva		Date: 08/06/08		
Tele: (952) 229-8200 www.ironwoodelectronics.com	File: SG-BGA-7141 Dwg		Modified: 07/31/14		

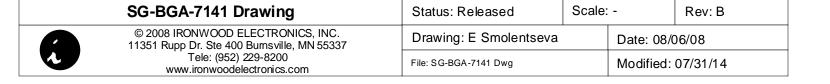
All tolerances: ±0.125mm (unless stated otherwise). Materials and specifications are subject to change without notice.

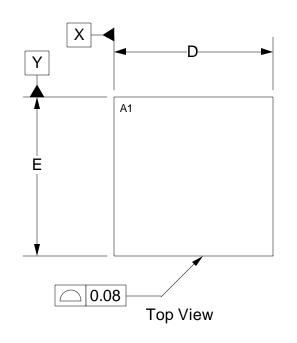


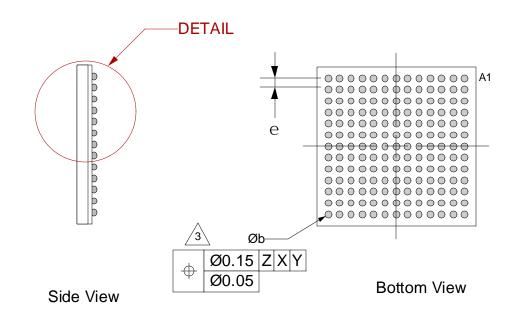
Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish

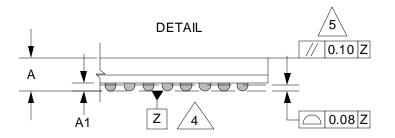
PCB Pad height: Same or higher than solder mask

Recommended PCB Layout Tolerances: ±0.025mm [±0.001"] unless stated otherwise.









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

/	3	
_	3	

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.

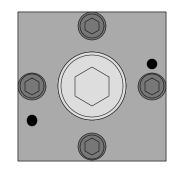


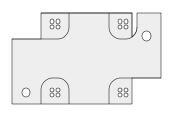
Parallelism measurement shall exclude any effect of mark on top surface of package.

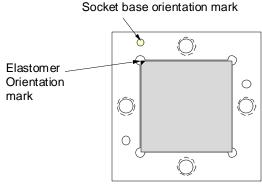
DIM	MIN	MAX		
Α		1.00		
A1	0.18			
b	0.25	0.35		
D	7.00 BSC			
Е	7.00 BSC			
е	0.5 BSC			

13x13 array

SG-BGA-7141 Drawing	Status: Released	Scale: -		Rev: B
© 2008 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Ste 400 Burnsville, MN 55337	Drawing: E Smolentseva		Date: 08/06/08	
Tele: (952) 229-8200 www.ironwoodelectronics.com	File: SG-BGA-7141 Dwg		Modified: 07/31/14	

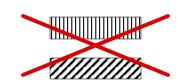






Top View Alignment Plate

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



## **User Instuctions:**

- 1. Insert alignment plate onto dowel pins in 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 for 24 hours at room temperature. Recommended epoxy: DP420 (3M brand, 15 min work life). Other equivalent epoxies can be substituted. Cure at room temperature. **Note:**

## Do not oven cure.

- 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 onto socket base with socket lid screws.
- 6. Assemble compression screw into socket lid and apply 8-16 in-oz torque.

Compression Screw
Socket Lid Screw
Socket Lid──►
Compression Plate ►
■■■■■■■■■■BGA package
Elastomer
Dowel Pin ■ Alignment Plate
Target Board



