Assembled 8.5mm + IC thickness

Side View

(Section AA)

Customer's BGA IC

40.225mm

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

Backing Plate may be required. Contact Ironwood with application details

recommended torque 14.64 in lb

Ероху

Socket Lid: Black anodized 6061 Aluminum.
Thickness = 2.5mm.

2

Socket base: Black anodized 6061 Aluminum. Thickness = 6.5mm.



Compression Plate: Black anodized 6061 Aluminum. Thickness = 2.5mm.



Compression screw: Clear an odized 6061 Aluminum. Thickness = 5mm. Hex socket = 5mm.



Elastomer: 40 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle).
Thickness = 0.75mm.

inickness = 0.75m



Socket lid screw: Socket head cap, Alloy steel with black oxide finish, 0-80 fine thread, 4.76mm long.



Ball Guide: 0.010" thick Kapton or Ultem

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

SG-BGA-6304 Drawing

Status: Released

Scale:
Rev: A

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Tele: (800) 404-0204
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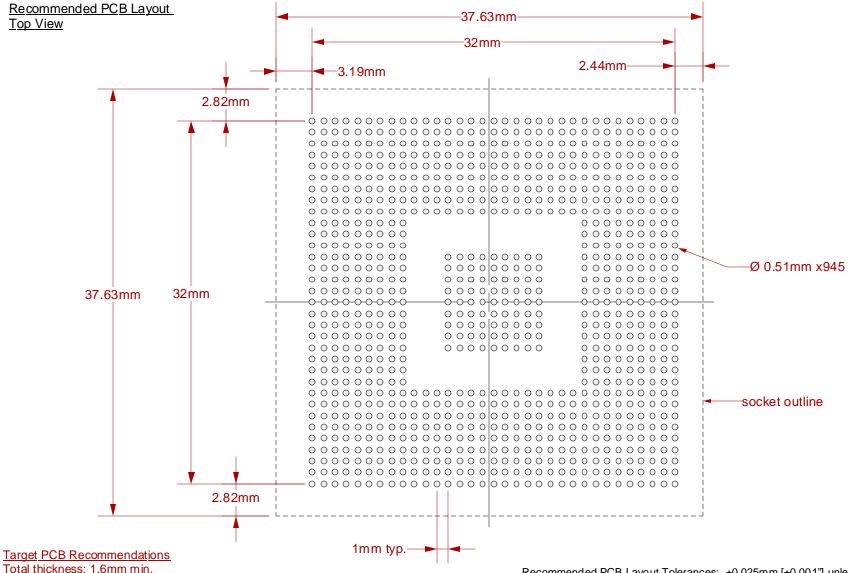
Tele: SG-BGA-6304 Dwg.mcd

Modified:

Customer's Target PCB

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

PAGE 1 OF 4



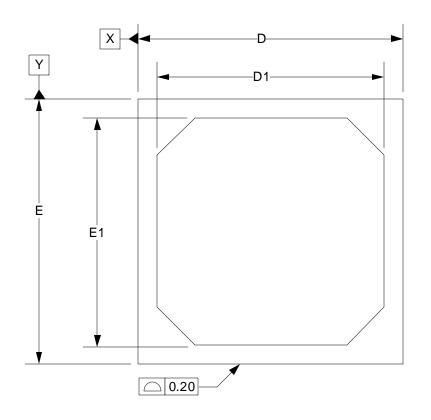
Plating: Gold or Solder finish

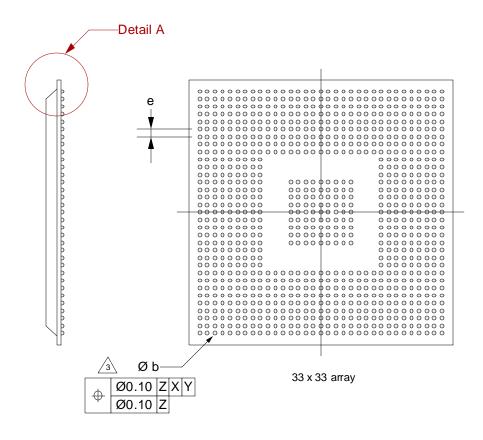
PCB Pad height: Same or higher than solder mask

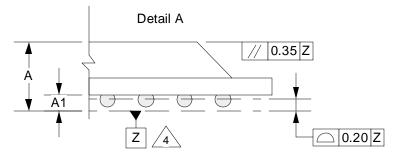
Recommended PCB Layout Tolerances: ±0.025mm [±0.001"] unless stated otherwise.

SG-BGA-6304 Drawing		Status: Released	Scale	: -	Rev: A
3	© 2010 IRONWOOD ELECTRONICS, INC. Tele: (800) 404-0204 www.ironwoodelectronics.com	Drawing: Vinayak R		Date: 3/18/10	
		File: SG-BGA-6304 Dwg.mcd		Modified:	

PAGE 2 OF 4



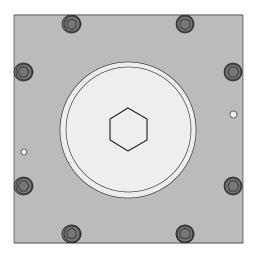


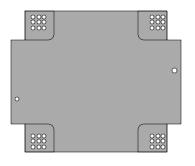


- 1. Dimensions are in millimeters.
- Interpret dimensions and tolerances per ASME Y14.5M-1994.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- Parallelism measurement shall exclude any effect of mark on top surface of package.

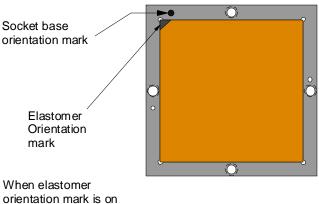
DIM	MIN	MAX		
Α		2.5		
A1	0.4	0.6		
b		0.70		
D	35.00 BSC			
D1	32.00 BSC			
Е	35.00 BSC			
E1	32.00 BSC			
е	1.00 BSC			

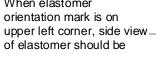
SG-BGA-6304 Drawing	Status: Released	Scale:	-	Rev: A
© 2010 IRONWOOD ELECTRONICS, INC.	Drawing: Vinayak R		Date: 3/18/10	
Tele: (800) 404-0204 www.ironwoodelectronics.com	File: SG-BGA-6304 Dwg.mcd		Modified:	

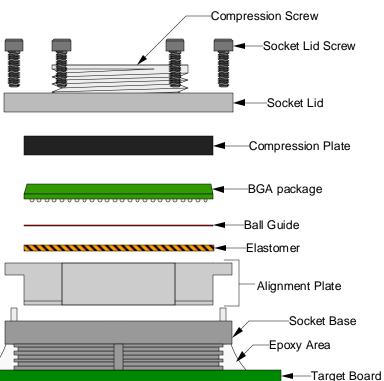




Top View Alignment Plate







User Instuctions:



- 1. Insert alignment plate dowel pins into 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 ball guide into the socket base cavity.
- 5. Place BGA package and compression plate into the socket base cavity.
- 6. Assemble socket lid onto socket base with socket lid screws.
- 7. Assemble compression screw into socket lid and apply 14.64 in-lb torque.

SG-BGA-6304 Drawing		Status: Released	Scale	: -	Rev: A
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		File: SG-BGA-6304 Dwg.mcd		Modified:	