

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
- Easily removable swivel socket lid

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

Socket base: Black anodized Aluminum. Thickness = 5mm.

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



Compression screw: Clear anodized Aluminum.

Thickness = 5mm, Hex socket = 5mm.



Elastomer: 20 micron dia gold plated brass symmetrically in a silicone e angle).

lon-clad FR4.

polyimide.

Socket head cap, alloy steel with 0-80 fine thread, 9.525mm long.

houlder screw, 18-8 SS, 0-80 fine

R4/G10, Thickness = 1.59mm.

ck anodized Aluminum.

_			F	Recommended torque = 0.5 in lbs./ 8 in oz.	5	filaments arranged sy rubber (63.5 degree a Thickness = 0.5mm.
The state of the s	\triangle		4	^		Elastomer Guide: Nor Thickness = 0.475mm
<u>Assembled</u>			3 /5	9\	7	Ball Guide: Kapton po
8.25mm + IC thickness				^2 \		Socket base screw: S black oxide finish, 0-8
6		0000000		12 /7		Socket lid screw: Sho thread.
			*************************************		10	Insulation Plate: FR4
Side View (Section AA)		Customorio				Backing Plate: Black Thickness = 6.35mm.
7.53	11	Customer's BGA IC	. Cus	stomer's Target PCB	12	IC Guide: Torlon

SG-BGA-7053 Drawing		Status: Released	Status: Released Scale:		Rev: C	
	© 2005 IRONWOOD ELECTRONICS, INC.	Drawing: H. Hansen	Drawing: H. Hansen		Date: 5/11/05	
	Tele: (952) 229-8200 www.ironwoodelectronics.com	File: SG-BGA-7053 Dwg	File: SG-BGA-7053 Dwg		Modified: 07/16/14, DH	

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

Note: Full BGA pattern shown.

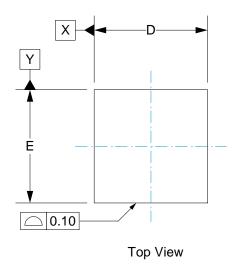
Please adjust pattern according Orientation Markto individual requirements. 1.25mm±0.13mm (x4) *4.11mm 1.25mm±0.13mm (x4) -0.5mm typ. **Socket Body** 2.54mm Size 3.86mm Ø 0.85mm±0.025mm (x2) Non plated alignment hole 5_mm 5.08mm Ø 0.28mm pad -Ø 1.61mm±0.05mm (x4) Non plated mounting hole -12.725mm (x4) -15.225mm±0.125mm (x4) -17.73mm sqr.backing plate outline

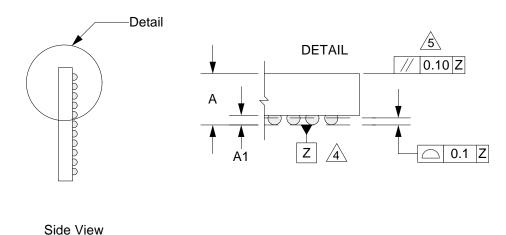
<u>Target PCB Recommendations</u> Total thickness: 1.6mm min.

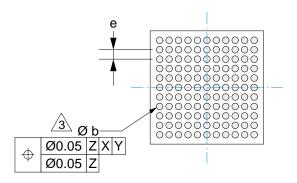
Plating: Gold or Solder finish PCB Pad height: Same or higher than solder mask All dimensions are in mm unless stated otherwise

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

SG-BGA-7053 Drawing		Status: Released	Scale: 4:1		Rev: C
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	Tele: (952) 229-8200 www.ironwoodelectronics.com	File: SG-BGA-7053 Dwg		Modified: 07/16/14, DH	







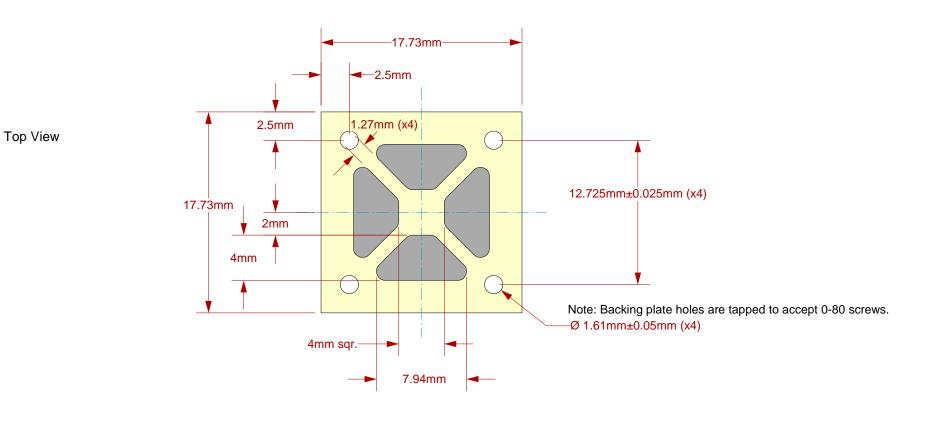
Bottom View

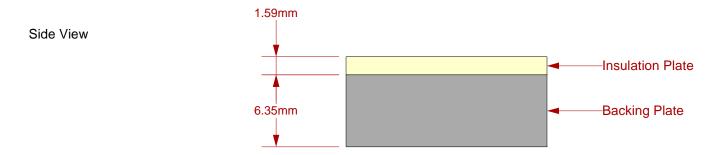
- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- Parallelism measurement shall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

DIM	MIN	MAX		
Α		1.0		
A1	0.15	0.25		
b		0.35		
D	6.0	BSC		
Е	6.0	BSC		
е	0.5 BSC			

11 x 11 array

SG-BGA-7053 Drawing		Status: Released Sca		1:0.2	Rev: C
	© 2005 IRONWOOD ELECTRONICS, INC. Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: H. Hansen		Date: 5/11/05	
W.		File: SG-BGA-7053 Dwg		Modified: 07/16/14, DH	





Description: Insulation Plate and Backing Plate

SG-BGA-7053 Drawing		Status: Released S		: 3:1	Rev: C
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•		File: SG-BGA-7053 Dwg		Modified: 07/16/14, DH	

All dimensions are in mm.
All tolerences are +/- 0.125mm.
(Unless stated otherwise)