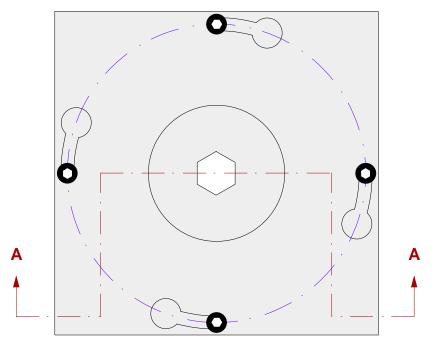
Top View



GHz CSP 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.

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 filaments arranged symmetrically in a silicone rubber (63.5 degree angle).

Thickness = 0.5mm.

Elastomer Guide: Non-clad FR4. Thickness = 0.475mm.

Ball Guide: Kapton polyimide.

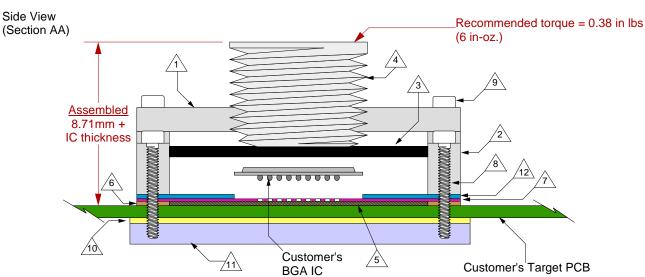
Socket base screw: Socket head cap, alloy steel with black oxide finish, 0-80 fine thread, 12.7mm long.

Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine

Insulation Plate: FR4/G10, Thickness = 1.59mm.

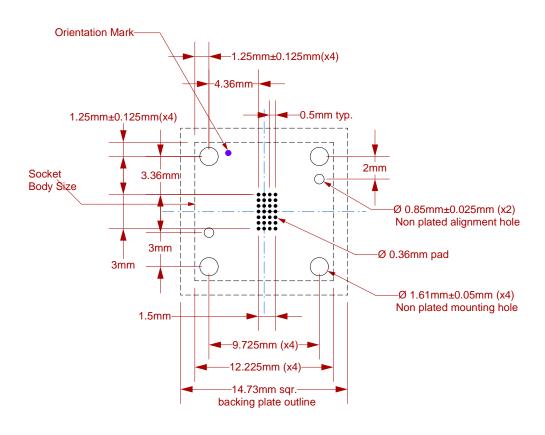
Backing Plate: Black anodized Aluminum. Thickness = 6.35mm.

IC Guide: FR4/G10



SG-BGA-7018 Drawing Status: Released Scale: -Rev: E Drawing: H. Hansen © 2009 IRONWOOD ELECTRONICS, INC. Date: 5/21/03 Tele: (952) 229-8200 Modified: 6/26/09, AE www.ironwoodelectronics.com File: SG-BGA-7018 Dwg

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



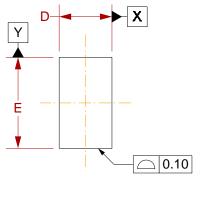
Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish

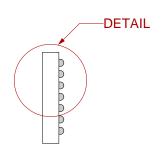
PCB Pad height: Same or higher than solder mask

NOTE: Steel backing plate may be required based on end user's application

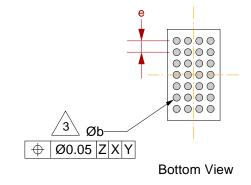
Recommended PCB Layout Tolerances: ±0.025mm [±0.001"] unless stated otherwise.

SG-BGA-7018 Drawing	Status: Released	Scale	: 3:1	Rev: E	
© 2009 IRONWOOD ELECTRONICS, INC. Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: H. Hansen		Date: 5/21/03		
	File: SG-BGA-7018 Dwg		Modified: 6/26/09, AE		

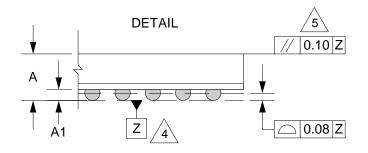




Side View



Top View



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

/	$^{\wedge}$
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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.

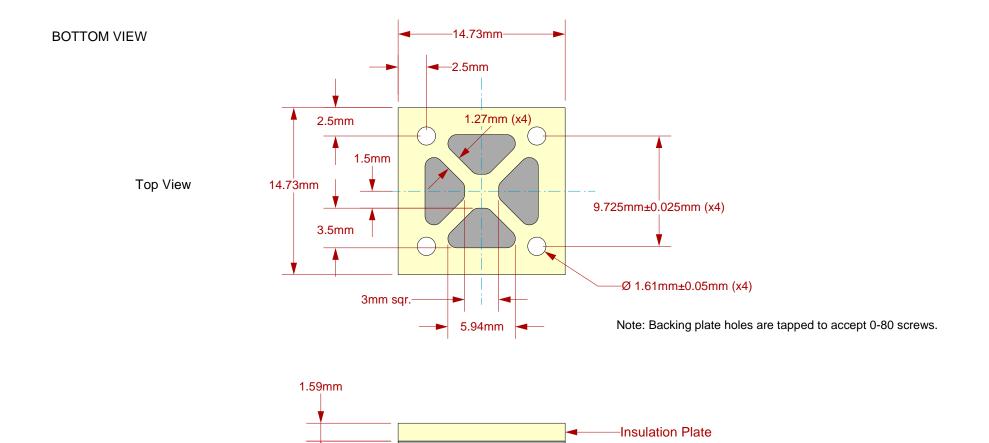


Parallelism measurement shall exclude any effect of mark on top surface of package.

DIM	MIN	MAX	
Α		0.965	
A1	0.195	0.225	
b		0.315	
D	2.326 BSC		
Е	4.019 BSC		
е	0.5	BSC	

4 x 7 array

SG-BGA-7018 Drawing		Status: Released	Scale: -		Rev: E
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		File: SG-BGA-7018 Dwg		Modified: 6/26/09, AE	



Backing Plate

Description: Insulation Plate and Backing Plate

Side View

SG-BGA-7018 Drawing		Status: Released	Scale	: -	Rev: E
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		File: SG-BGA-7018 Dwg		Modified: 6/26/09, AE	

6.35mm

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