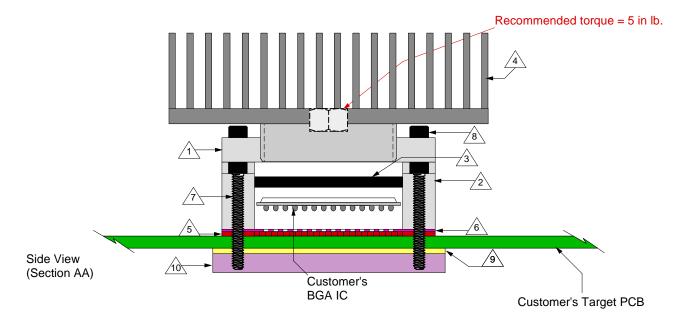


GHz BGA Socket - Direct mount, solderless

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
- Ball guide prevents over compression of elastomer
- 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.

Heat sink compression screw: Black anodized Aluminum. Hex socket = 5mm, fin height 10 mm, octagonal

Elastomer: Embedded Silver Ball Matrix
Thickness = 0.5969mm - 0.6604mm

6 Ball Guide: Kapton polyimide.

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

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

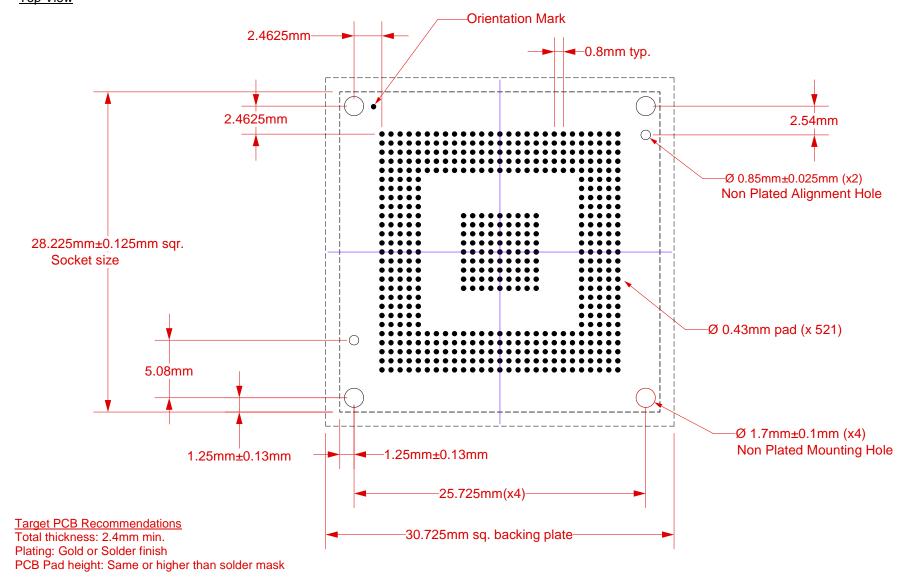
9\ Insulation Plate: FR4/G10, Thickness = 1.59mm.

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

SM-BGA-9000 Drawing		Status: Released	Scale	: -	Rev: A
3	© 2011 IRONWOOD ELECTRONICS, INC. Tele: (952) 229-8200	Drawing: E Smolentseva		Date: 4/12/11	
		File: SM-BGA-9000 Dwg.mcd		Modified:	

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

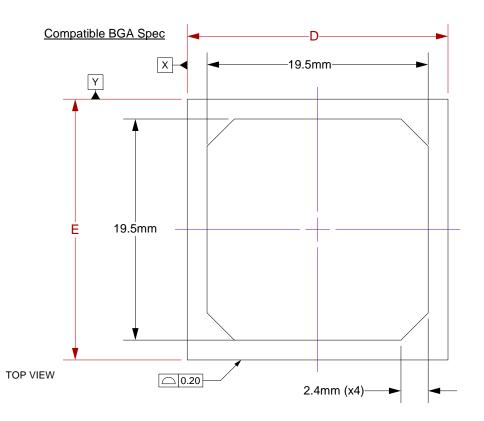
Recommended PCB Layout Top View

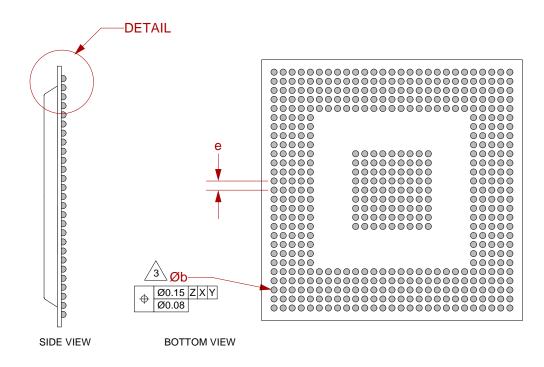


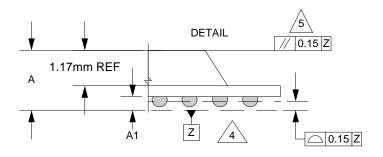
NOTE: Steel backing plate may be required based on end user's application

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

SM-BGA-9000 Drawing	Status: Released	Scale: -		Rev: A
© 2011 IRONWOOD ELECTRONICS, INC.	Drawing: E Smolentseva	Date: 4/12/11		2/11
Tele: (952) 229-8200 www.ironwoodelectronics.com	File: SM-BGA-9000 Dwg.mcd		Modified:	







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

3	Dimension b is
3	solder ball dian

measured at the maximum meter, parallel to datum plane Z.



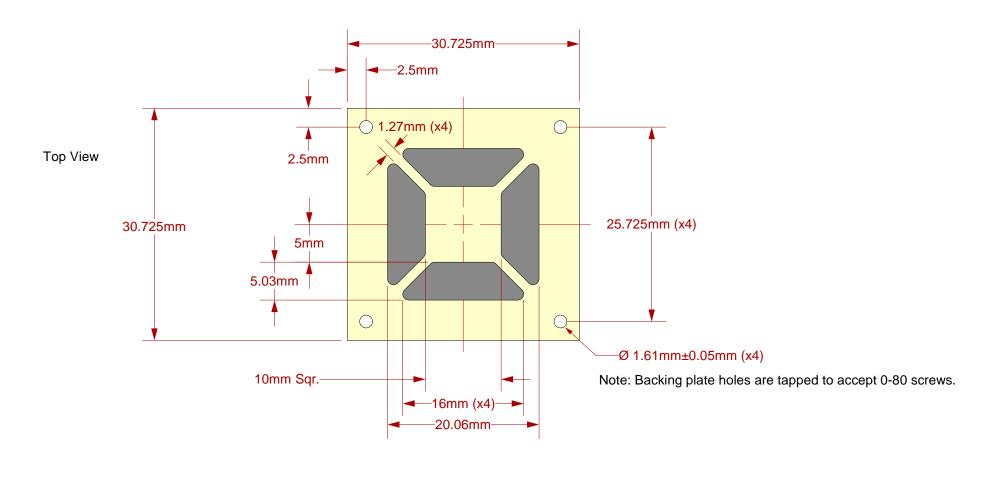
Datum Z (seating plane) is defined by the spherical crowns of the solder balls.

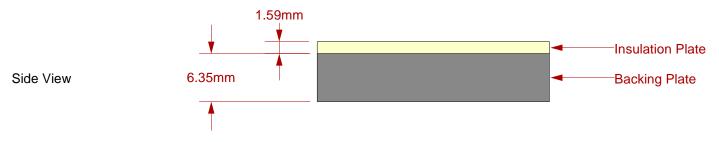
Parallelism measurement shall exclude any effect of mark on top surface of package.

DIM	MIN	MAX			
Α	1.8	2.06			
A1	0.30	0.50			
b		0.50			
D	23.0 BSC				
Е	23.0 BSC				
е	0.8 BSC				

Array: 27x27

SM-BGA-9000 Drawing		Status: Released	Scale: -		Rev: A	
	© 20	© 2011 IRONWOOD ELECTRONICS, INC. Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: E Smolentseva		Date: 4/12/11	
			File: SM-BGA-9000 Dwg.mcd	1-BGA-9000 Dwg.mcd		Modified:





Description: Backing Plate with Insulation Plate

SM-BGA-9000 Drawing		Status: Released	Scale: -		Rev: A
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		File: SM-BGA-9000 Dwg.mcd	Modified:		

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

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