

Target PCB Recommendations

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

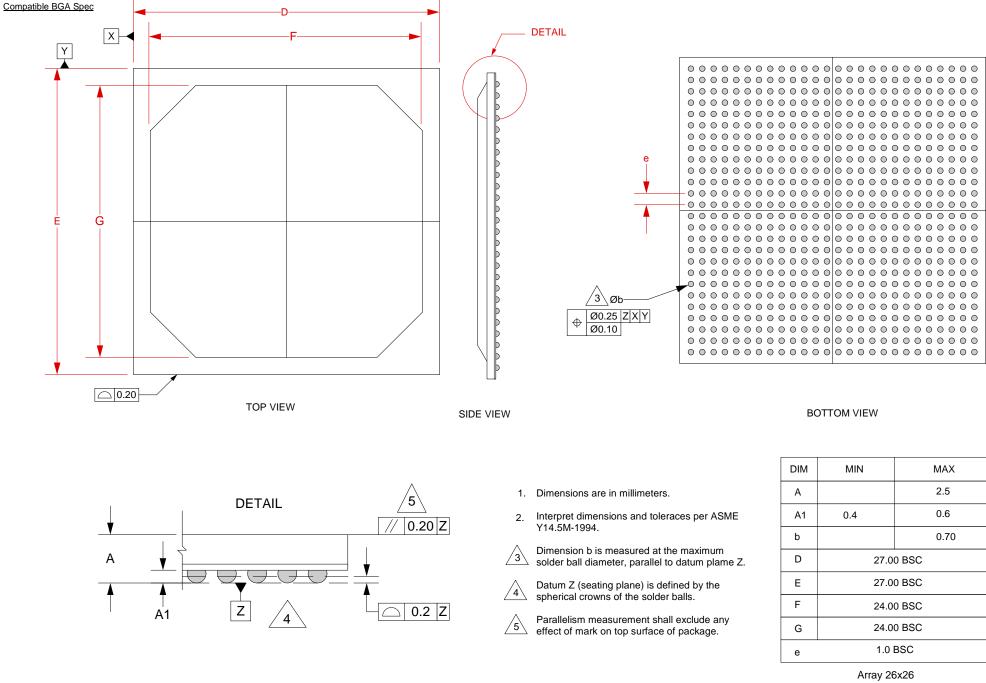
PCB Pad height: Same or higher than solder mask

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

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

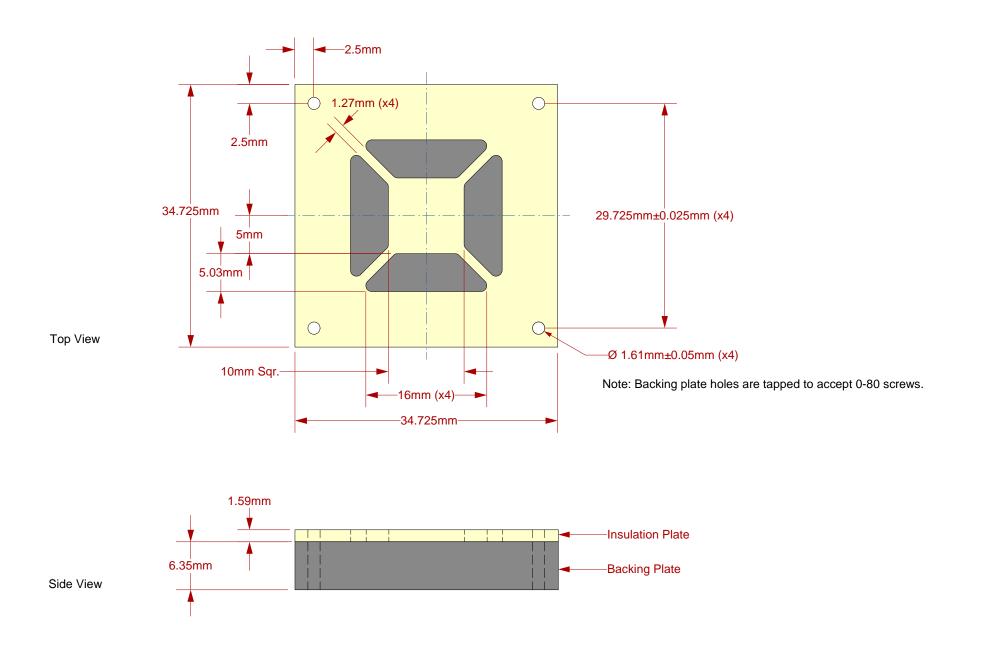
SG-BGA-6249 Drawing	Status: Released	Scale: 3	3:1	Rev: B	
© 2007 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: J. Glab		Date: 11/09/07		
	File: SG-BGA-6249 Dwg		Modified: 5/19/09		

## PAGE 2 of 5



SG-BGA-6249 Drawing	Status: Released	Scale:	N/A	Rev: B	
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Tele: (952) 229-8200 www.ironwoodelectronics.com	File: SG-BGA-6249 Dwg	Modified: 5/19		5/19/09	

## PAGE 3 of 5



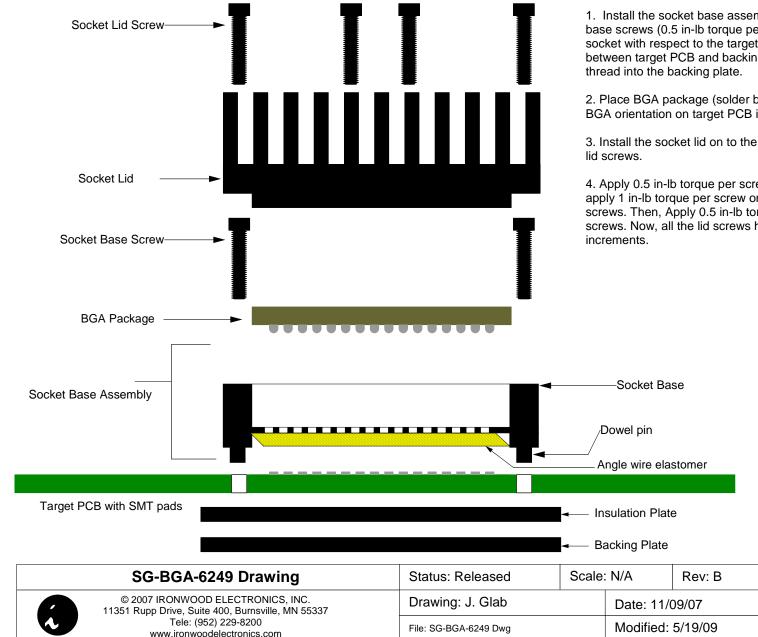
#### Description: Backing Plate with Insulation Plate

SG-BGA-6249 Drawing	Status: Released	Scale: 2:1		Rev: B
© 2007 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: J. Glab		Date: 11/09/07	
	File: SG-BGA-6249 Dwg		Modified: 5/19/09	

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

PAGE 4 of 5

# **Socket** (direct mount - hardware) User Instructions



### Tooling holes have to be designed into the target PCB for this version of the GHz BGA socket

1. Install the socket base assembly on the target PCB with the socket base screws (0.5 in-lb torque per screw). Check orientation of the socket with respect to the target PCB. Place insulation plate in between target PCB and backing plate. Socket base screws will thread into the backing plate.

2. Place BGA package (solder ball side down) into the socket. NOTE: BGA orientation on target PCB is critical.

3. Install the socket lid on to the socket base assembly using socket lid screws.

4. Apply 0.5 in-lb torque per screw on two opposite lid screws. Then, apply 1 in-lb torque per screw on the remaining two opposite lid screws. Then, Apply 0.5 in-lb torque per screw on the initial two lid screws. Now, all the lid screws have 1 in-lb torque applied in gradual increments.

PAGE 5 of 5