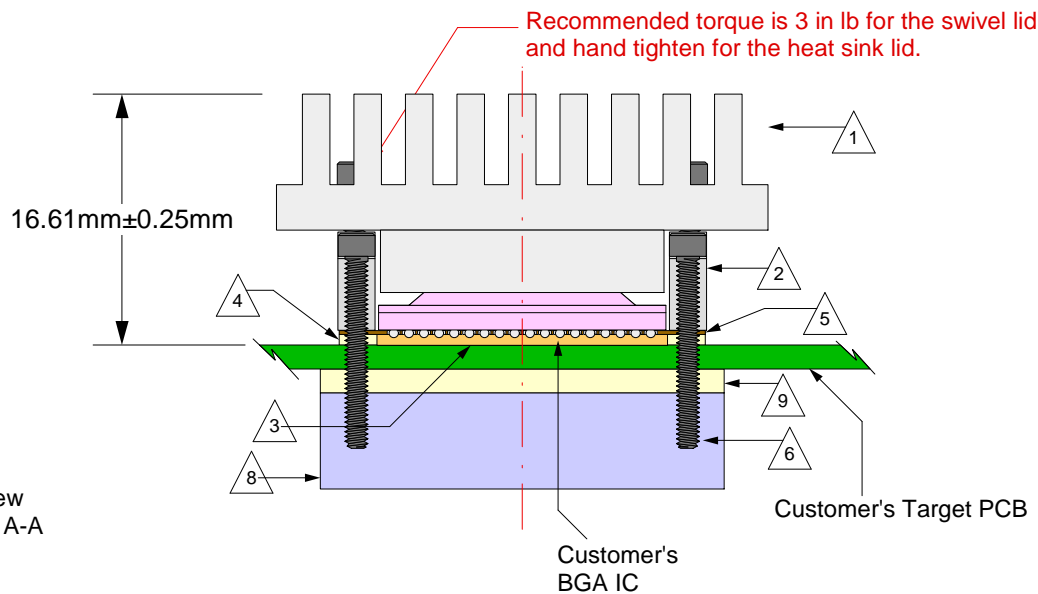


Top View

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
- Heat sink lid for power dissipation



Side View
Section A-A

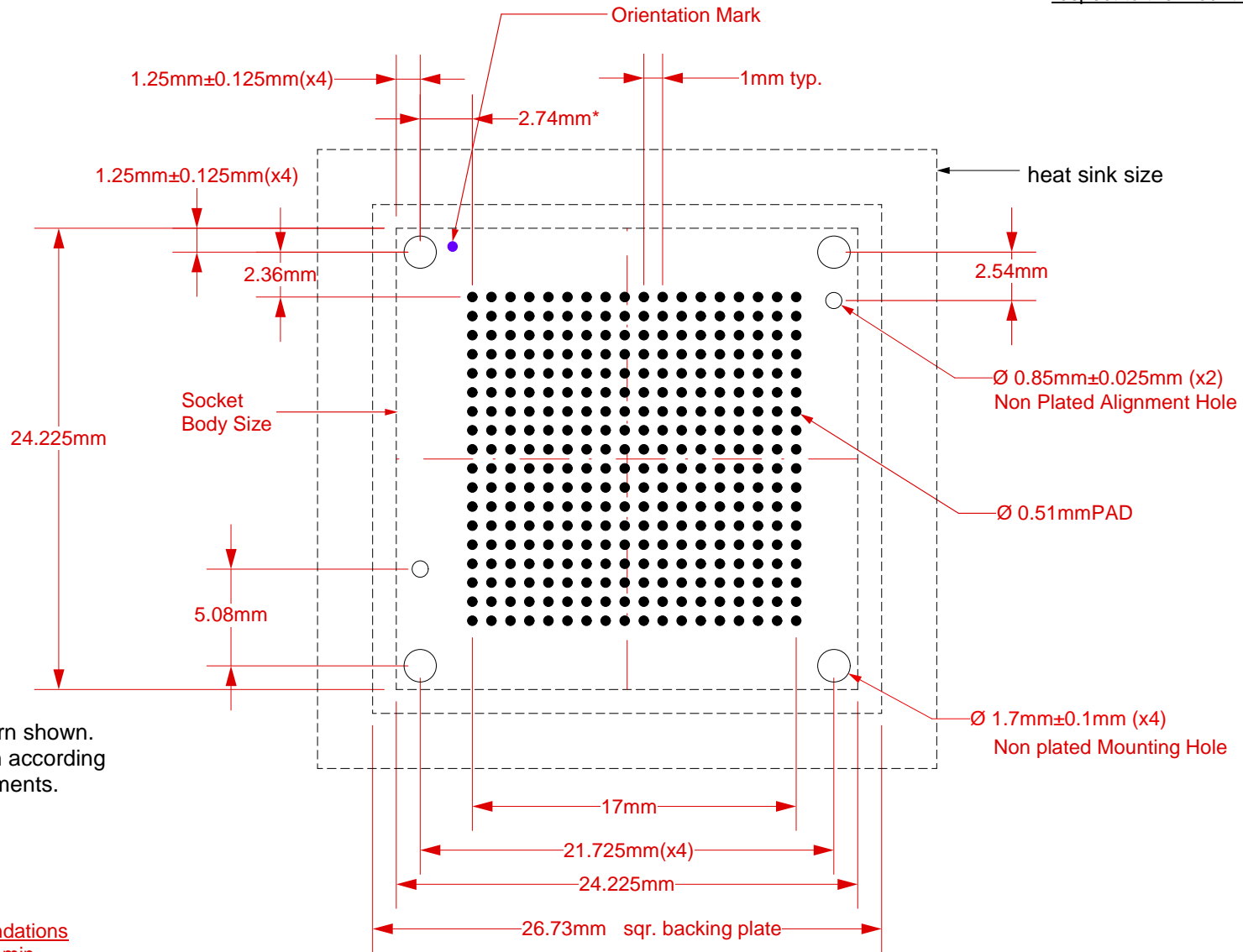
- △ 1 Heatsink Lid: Black anodized Aluminum. Thickness = 16mm.
- △ 2 Socket base: Black anodized Aluminum. Thickness = 5mm.
- △ 3 Elastomer: 40 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.75mm.
- △ 4 Elastomer Guide: Cirlex or equivalent. Thickness = 0.75mm.
- △ 5 Ball Guide: Kapton polyimide. Thickness = 0.25mm.
- △ 6 Socket base screw: Socket head cap, Alloy steel with black oxide finish, 0-80 fine thread , 12.7mm long.
- △ 7 Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.
- △ 8 Backing Plate: Black anodized Aluminum. Thickness = 6.35mm.
- △ 9 Insulation Plate: FR4/G10, Thickness = 1.59mm.

	SG-BGA-6226 Drawing	Status: Released	Scale: -	Rev: B
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Dr. Suite 400, Burnsville MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: J. Glab	Date: 05/24/07	
		File: SG-BGA-6226 Dwg.mcd	Modified: 7/20/09, AE	

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

Recommended PCB Layout
Top View

Note: BGA pattern is not symmetrical with respect to the mounting holes.




Note: Full BGA pattern shown.
Please adjust pattern according to individual requirements.

Target PCB Recommendations

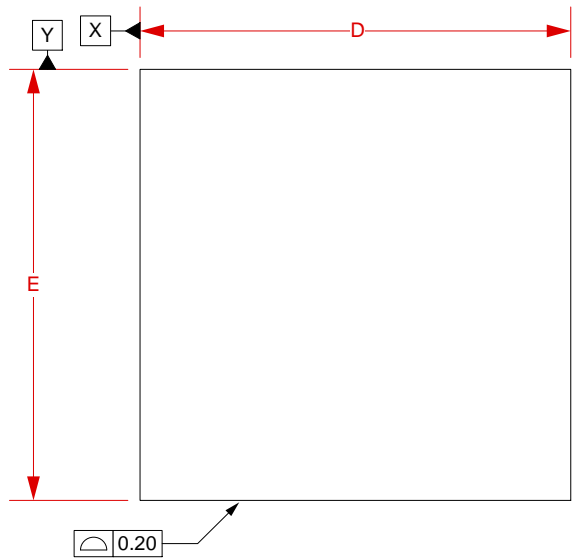
Total thickness: 1.6mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

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

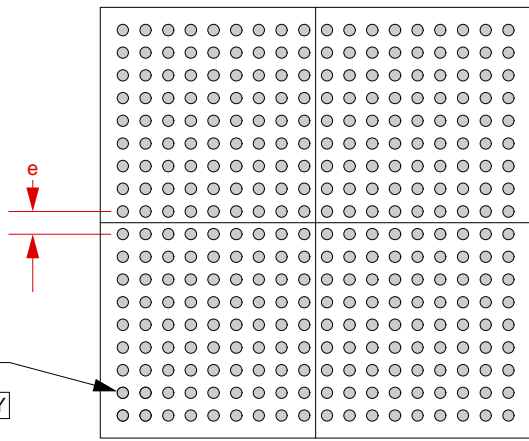
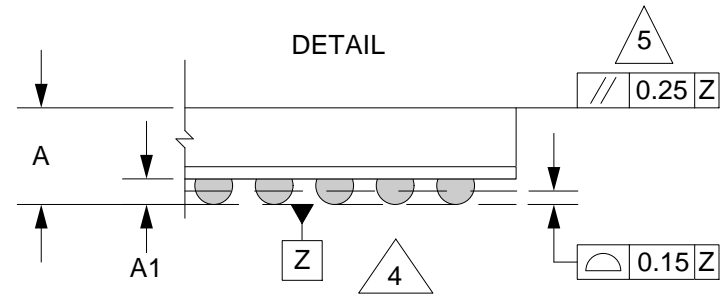
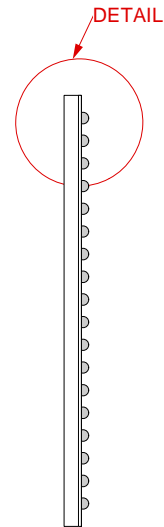
Recommended PCB Layout Tolerances: $\pm 0.025\text{mm}$ [$\pm 0.001''$] unless stated otherwise.

	SG-BGA-6226 Drawing	Status: Released	Scale: -	Rev: B
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TOP VIEW



SIDE VIEW




BOTTOM VIEW

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

DIM	MIN	MAX
A		3.42
A1	0.3	0.5
b		0.70
D	19.00 BSC	
E	19.00 BSC	
e	1.0 BSC	

Array: 18x18

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