Top View A 24.23mm A 24.23mm

Side View

(Section AA)

GHz BGA Socket - Direct mount, solderless

Features

Recommended torque = 3 in lb.

- 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.

THICKIC33 = 2.5HIII



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: 40 micron dia gold plated brass

<u>/</u>5

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

Thickness = 0.75mm.



Elastomer Guide: Non-clad FR4. Thickness = 0.745mm.



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 thread



Socket base nut: 18-8 Stainless steel, 0-80 fine thread.





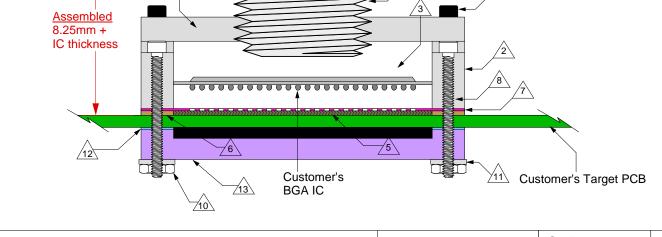
Nylon washer: 1.73mm ID; 4.78mm OD 0.64mm thickness.



Insulation plate: Kapton polyamide film. Thickness: 0.25mm

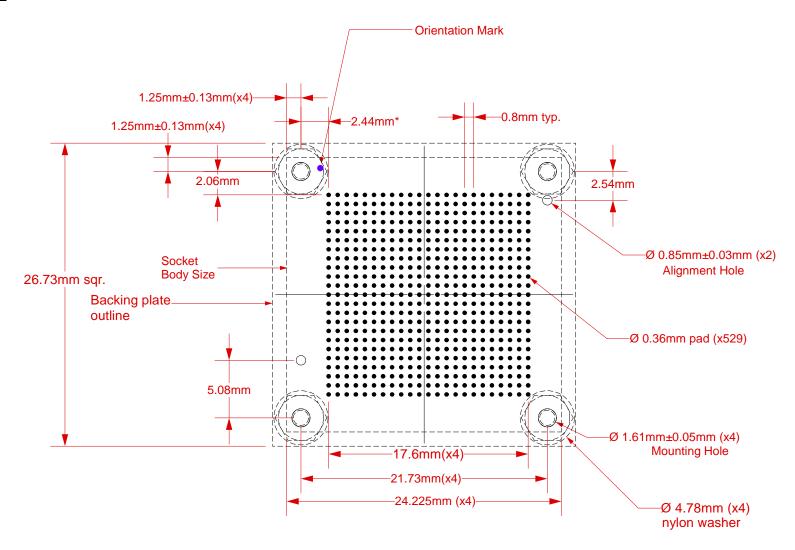


Backing plate: Black anodized Aluminum. Thickness = 4 mm.



SG-BGA-6124 Drawing	Status: Released	Scale:	-	Rev: B	
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	File: SG-BGA-6124 Dwg		Modified: 7/17/09, AE		

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



Target PCB Recommendations

Total thickness: 1.6mm min.

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

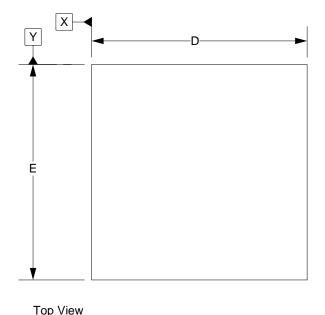
Plating: Gold or Solder finish

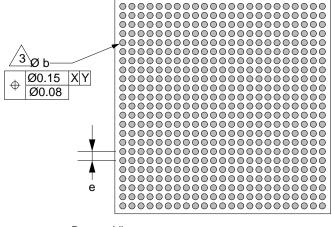
PCB Pad height: Same or higher than solder mask

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

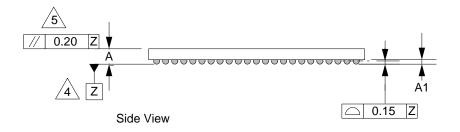
Recommended PCB Layout Tolerances: ±0.025mm [±0.001"] unless stated otherwise.

SG-BGA-6124 Drawing	Status: Released	Scale: 3:1		Rev: B
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	File: SG-BGA-6124 Dwg		Modified: 7/17/09, AE	





Bottom View



- 1. Dimensions are in millimeters.
- 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.

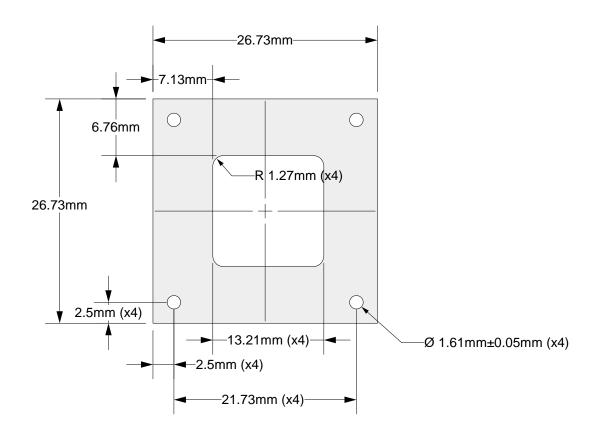


Parallelism measurement shall exclude 5 any effect of mark on top surface of package.

DIM	MIN	MAX		
Α		1.4		
A1	0.25			
b	0.35	0.45		
D	19.0 BSC			
Е	19.0 BSC			
е	e 0.8 BSC			

Array: 23 X 23

SG-BGA-6124 Drawing	Status: Released	Scale:	-	Rev: B
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Description: Insulation and backing plate.

SG-BGA-6124 Drawing	Status: Released	Scale:	-	Rev: B
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