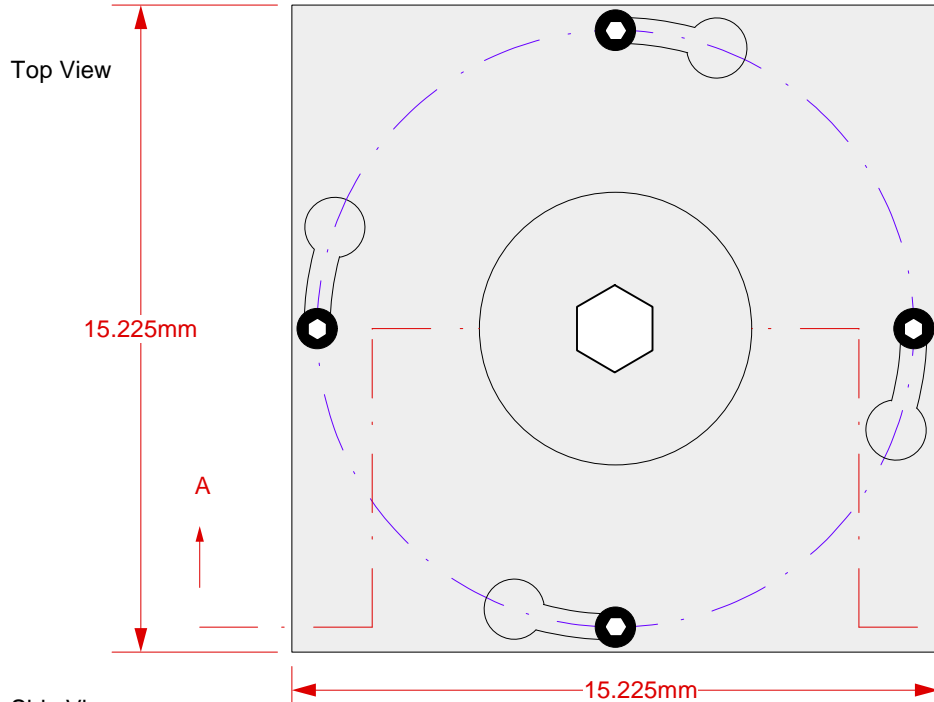
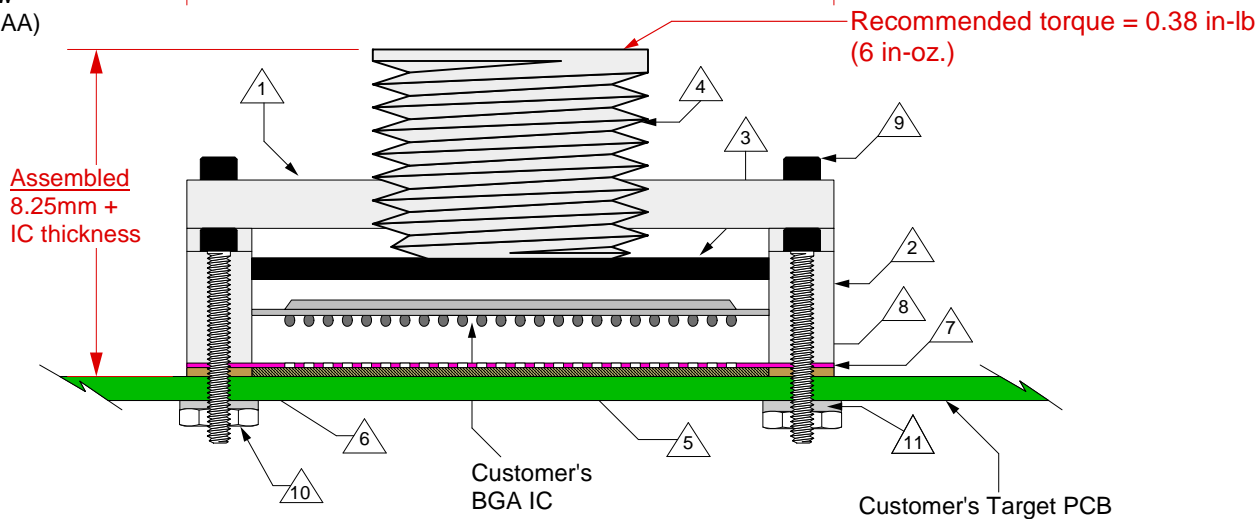


GHz BGA Socket - Direct mount, solderless



Side View
(Section AA)



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

- △ 1 Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.
- △ 2 Socket base: Black anodized Aluminum. Thickness = 5mm.
- △ 3 Compression Plate: Black anodized Aluminum. Thickness = 2.5mm.
- △ 4 Compression screw: Black anodized Aluminum. Thickness = 5mm, Hex socket = 5mm.
- △ 5 Elastomer: 40 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.75mm.
- △ 6 Elastomer Guide: Non-clad FR4. Thickness = 0.725mm.
- △ 7 Ball Guide: Kapton polyimide.
- △ 8 Socket base screw: Socket head cap, alloy steel with black oxide finish, 0-80 fine thread, 9.525mm long.
- △ 9 Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.
- △ 10 Socket base nut: 18-8 Stainless steel, 0-80 fine thread.
- △ 11 Nylon washer: 1.73mm ID; 4.78mm OD, 0.64mm thick

All tolerances: $\pm 0.125\text{mm}$ (unless stated otherwise). Materials and specifications are subject to change without notice.

SG-BGA-6021 Drawing

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PO BOX 21151 ST. PAUL, MN 55121
Tele: (651) 452-8100
www.ironwoodelectronics.com

Status: Released

Scale: NA

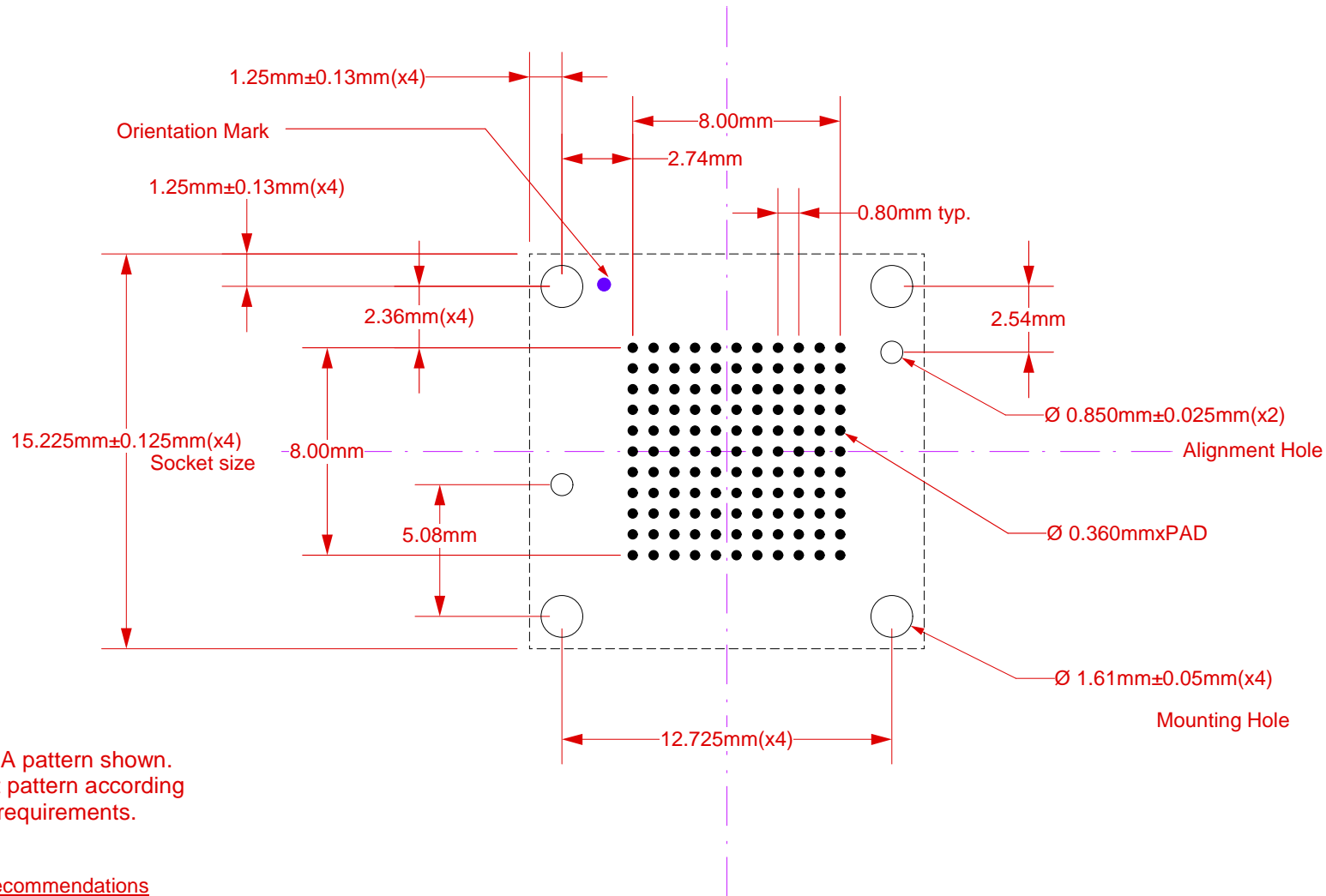
Rev: F

Drawing: H. Hansen

Date: 11/26/01

File: SG-BGA-6021 Dwg.mcd

Modified: 6/2/09 AE




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

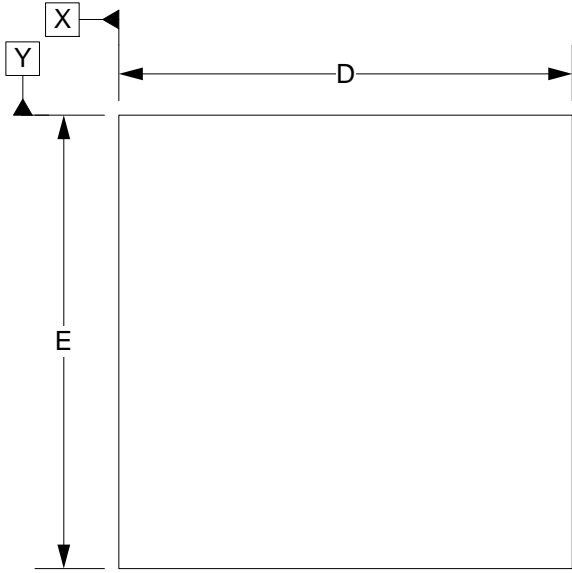
Target PCB Recommendations

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

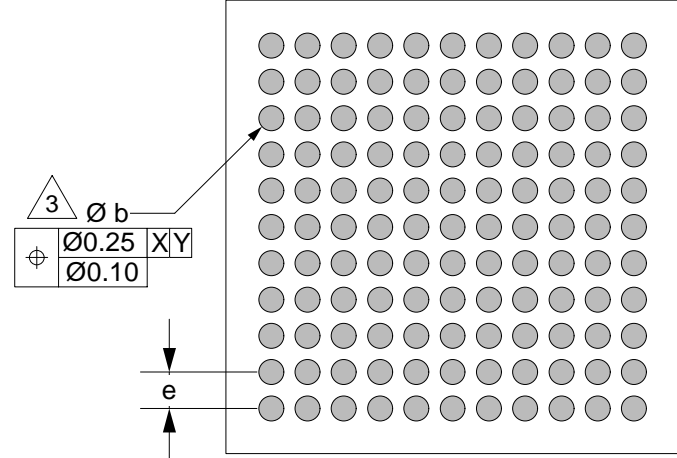
NOTE: Steel backing plate may be required based on end user's application

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

	SG-BGA-6021 Drawing © 2001 IRONWOOD ELECTRONICS, INC. PO BOX 21151 ST. PAUL, MN 55121 Tele: (651) 452-8100 www.ironwoodelectronics.com	Status: Released	Scale: 4:1	Rev: F
		Drawing: H. Hansenen	Date: 11/26/01	
		File: SG-BGA-6021 Dwg.mcd	Modified: 6/2/09, AE	

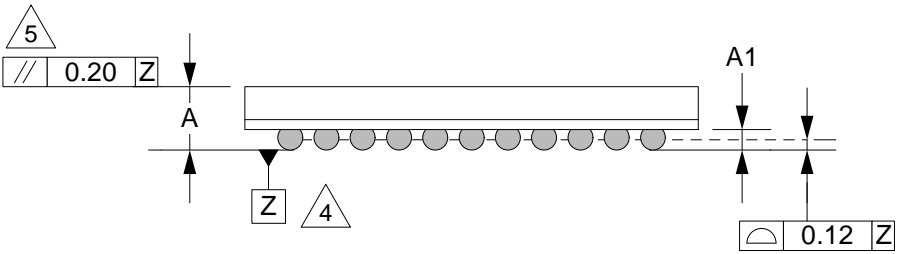


Top View



Bottom View


Array 11x11



End 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		2.5
A1	0.25	0.35
b		0.45
D	10.0 BSC	
E	10.0 BSC	
e	0.8 BSC	

	SG-BGA-6021 Drawing	Status: Released	Scale: N/A	Rev: F
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