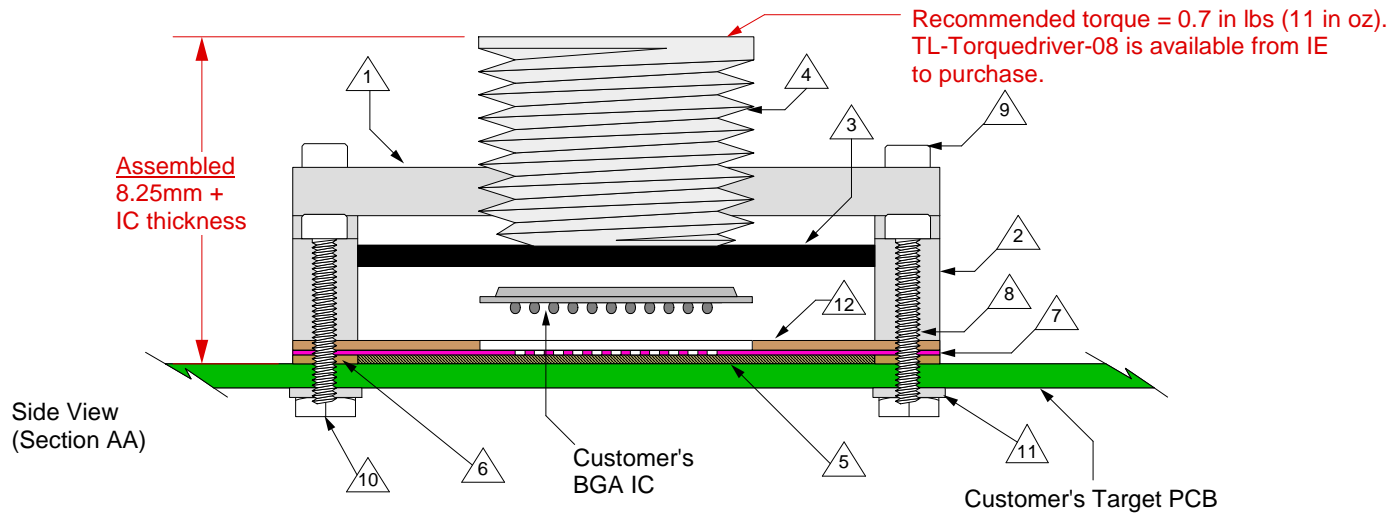
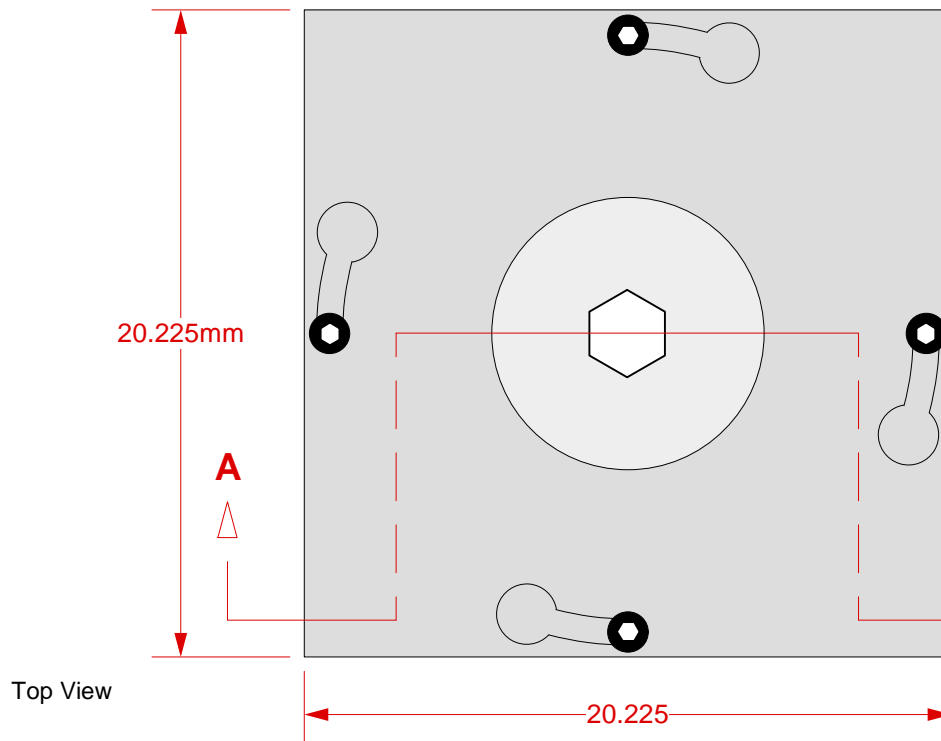


GHz BGA Socket - Direct mount, solderless

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



- △ 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: Clear 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 thickness.
- △ 12 IC Guide: Ultem 1000

SG-BGA-6116 Drawing

Status: Released

Scale: -

Rev: B



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Drawing: H. Hansen

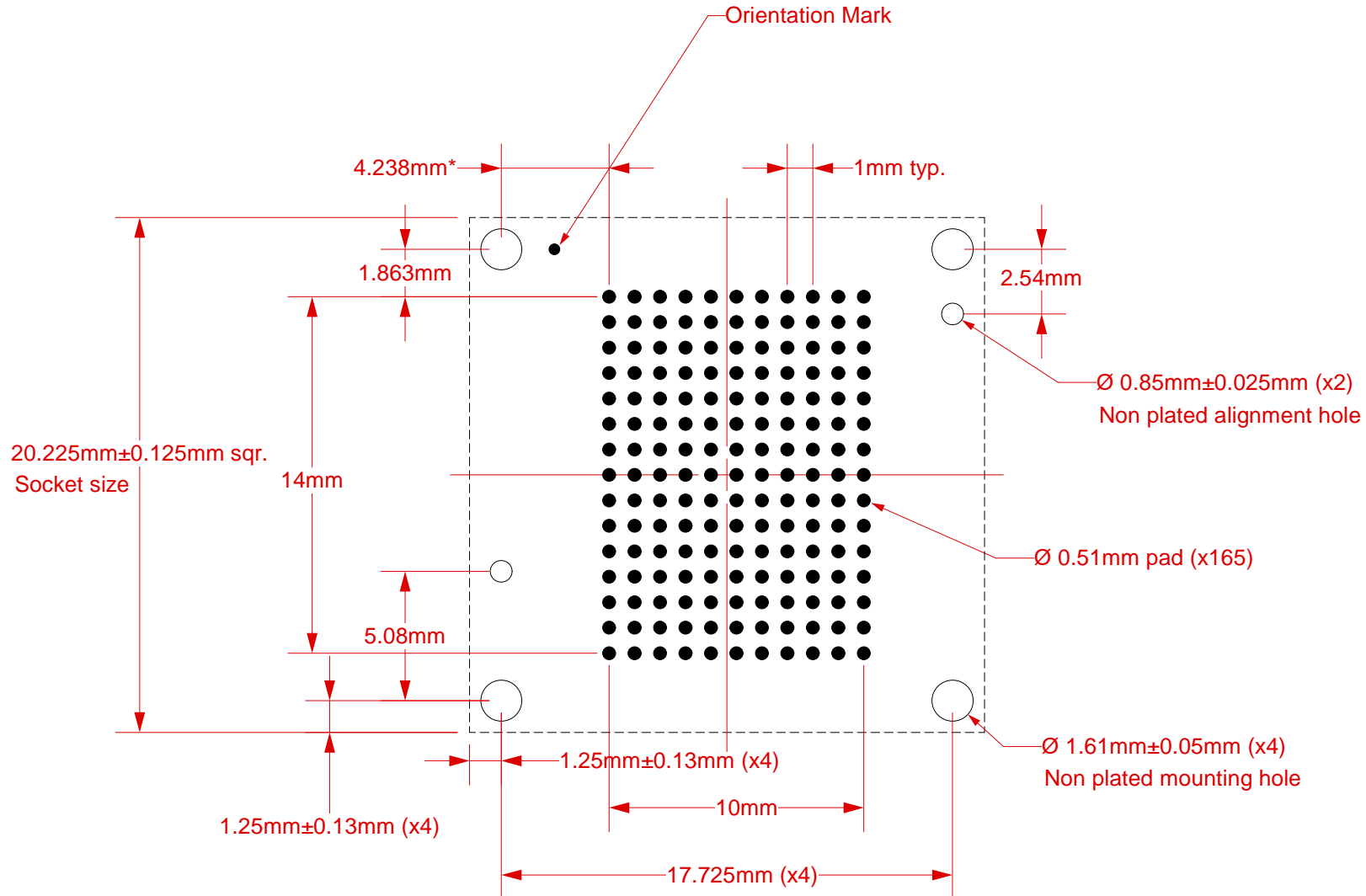
Date: 4/24/04

File: SG-BGA-6116 Dwg

Modified: 7/2/09, AE

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

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




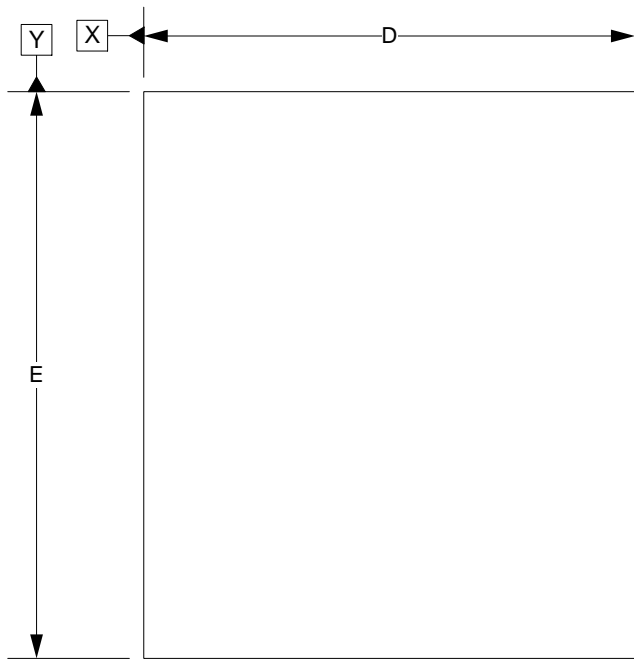
Target PCB Recommendations

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

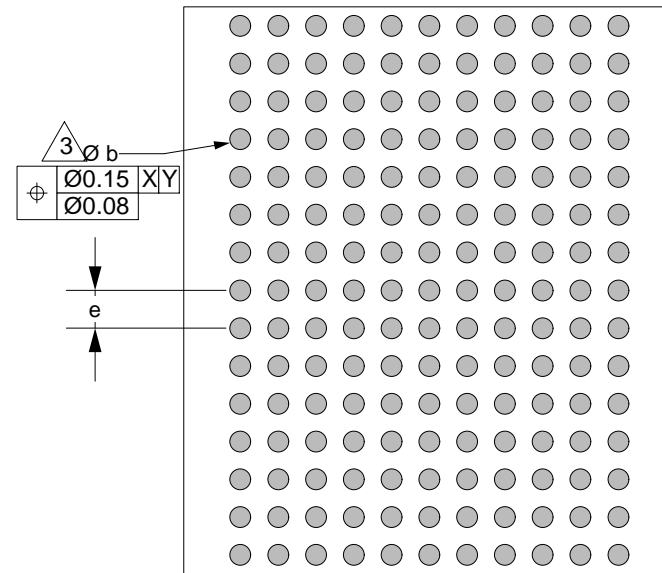
NOTE: Steel backing plate may be required based on end user's application

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

<p>SG-BGA-6116 Drawing</p>	<p>Status: Released</p>	<p>Scale: -</p>	<p>Rev: B</p>
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	<p>File: SG-BGA-6116 Dwg</p>		<p>Modified: 7/2/09, AE</p>

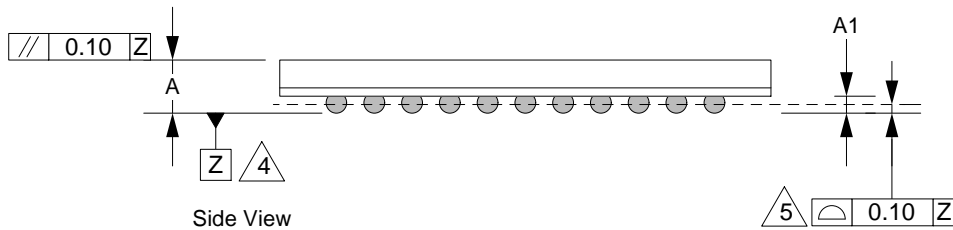


Top View



Bottom View

Array:11x15



Side 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		1.20
A1	0.30	0.40
b	0.35	0.50
D	13.0 BSC	
E	15.0 BSC	
e	1.0 BSC	

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	<p>Drawing: H. Hansen</p>		<p>Date: 4/24/04</p>	
	<p>File: SG-BGA-6116 Dwg</p>		<p>Modified: 7/2/09, AE</p>	