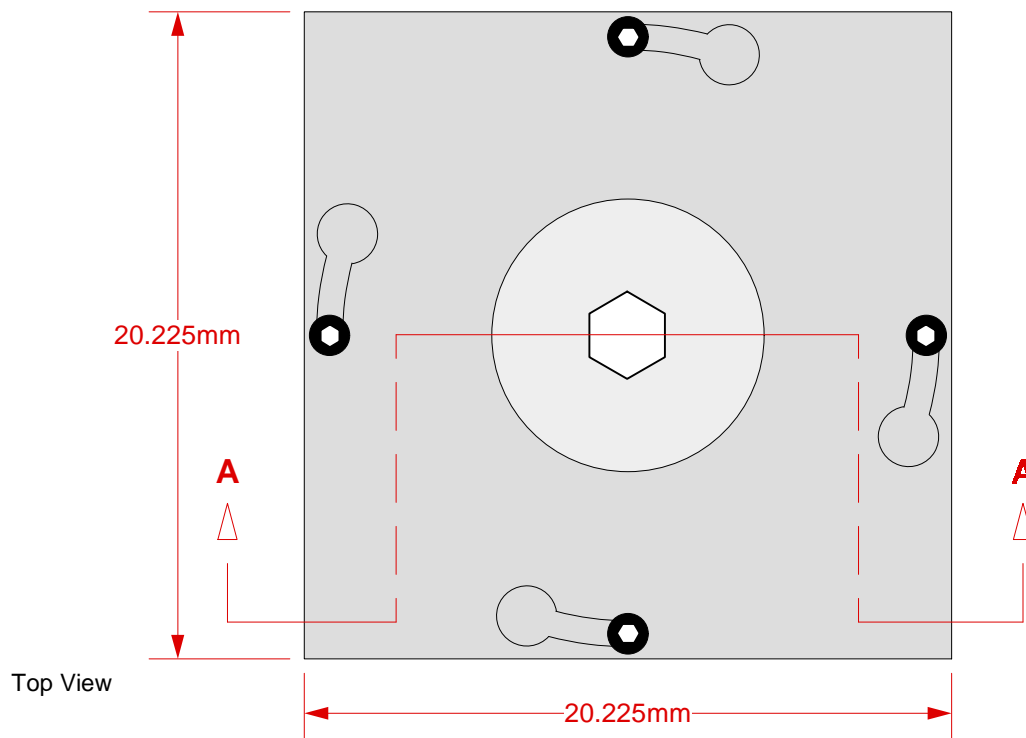


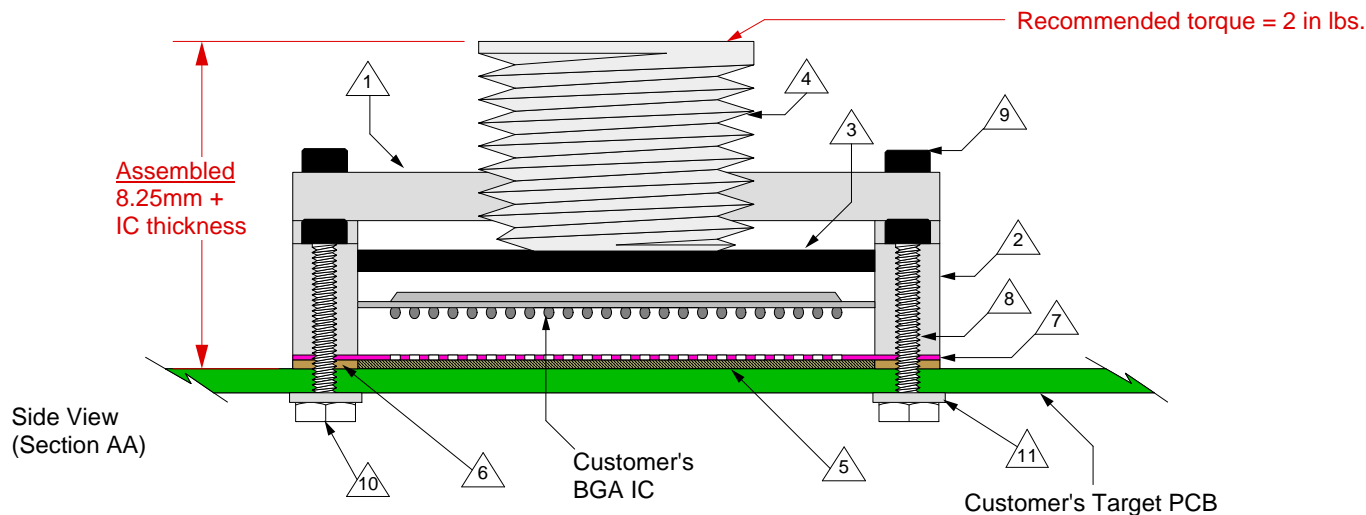
GHz BGA Socket - Direct mount, solderless

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



Top View



Side View
(Section AA)

- △ 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 thickness.

SG-BGA-6028 Drawing

Status: Released

Scale: -

Rev: E

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Tele: (952) 229-8200
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Drawing: W. Watson

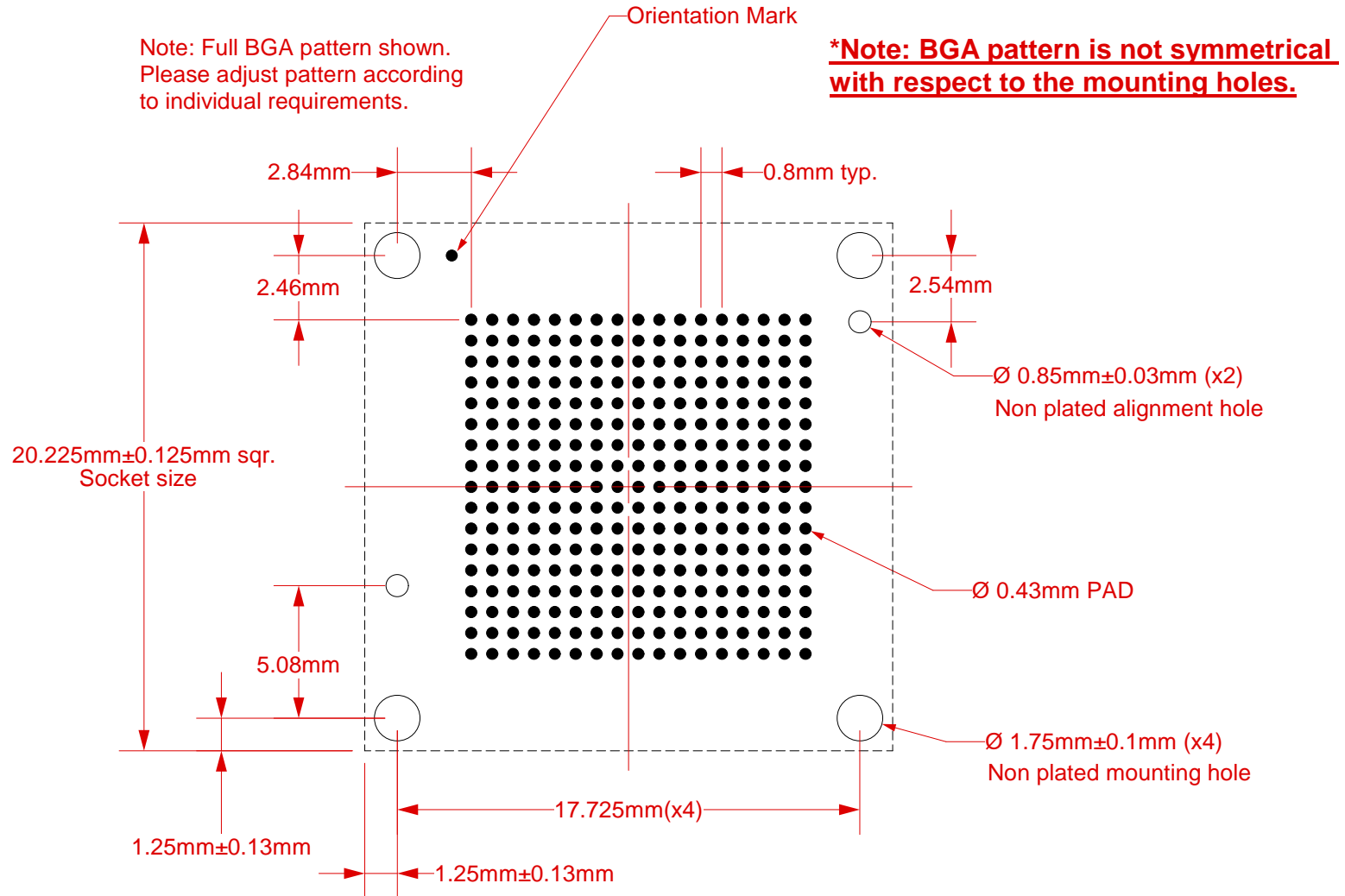
Date: 12/12/01

File: SG-BGA-6028 Dwg.mcd

Modified: 7/02/09, AE

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

Recommended PCB Layout
Top View




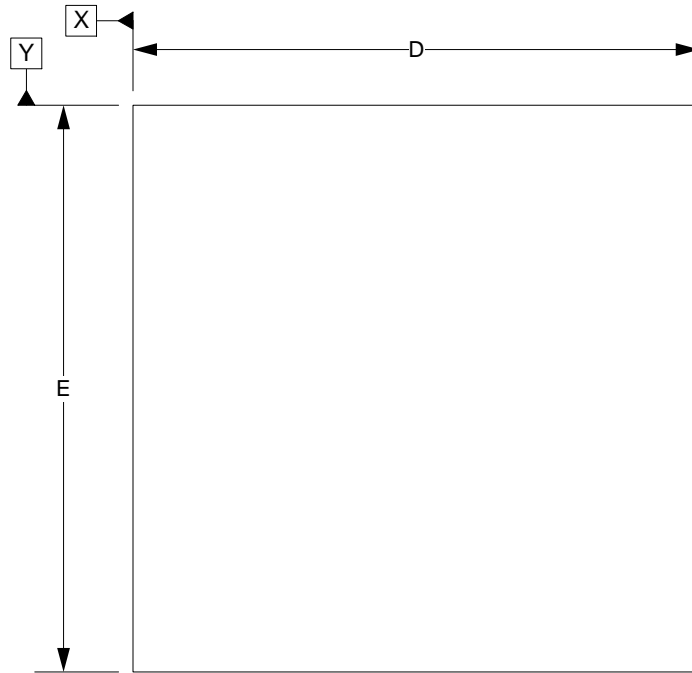
Target PCB Recommendations

Total thickness: 2.4mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

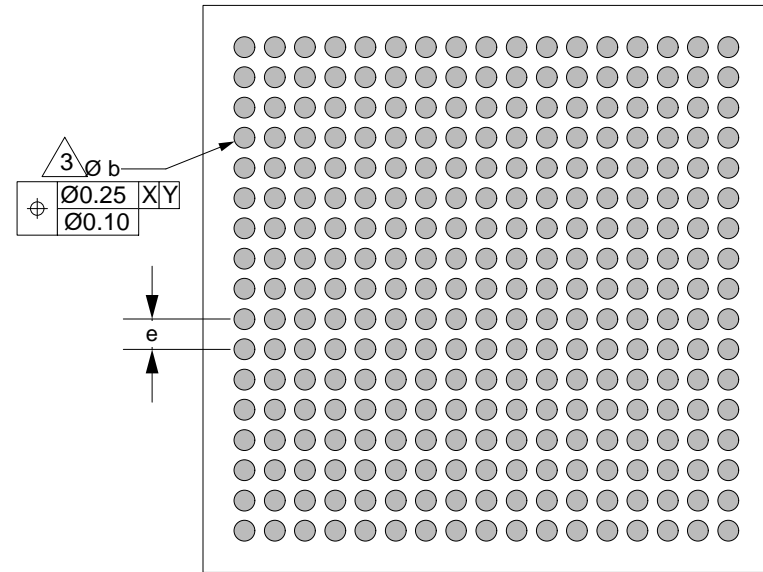
NOTE: Steel backing plate may be required based on end user's application

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

	SG-BGA-6028 Drawing	Status: Released	Scale: 4:1	Rev: E
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		File: SG-BGA-3028 Dwg.mcd	Modified: 7/02/09, AE	

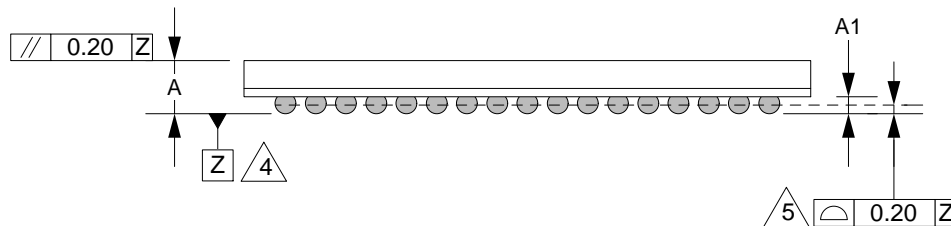


Top View



Bottom View


Array:17x17



Side View

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

DIM	MIN	MAX
A		1.4
A1	0.35	0.45
b		0.55
D	15.0 BSC	
E	15.0 BSC	
e	0.8 BSC	

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	<p>Drawing: W. Watson</p>	<p>Date: 12/12/01</p>		
	<p>File: SG-BGA-6028 Dwg.mcd</p>	<p>Modified: 7/02/09, AE</p>		