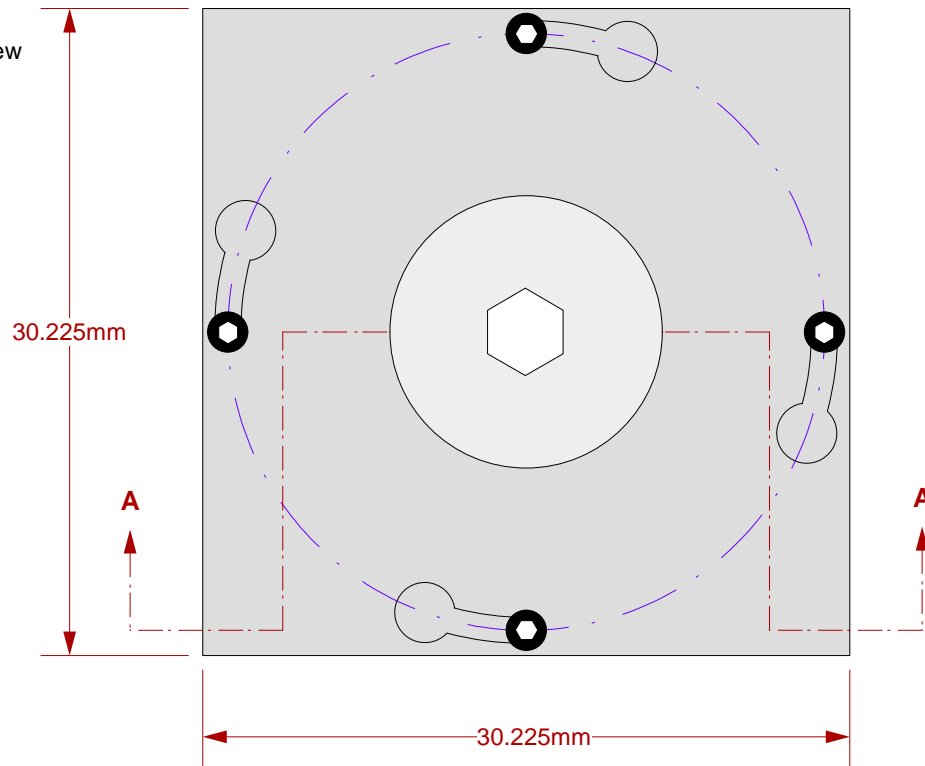


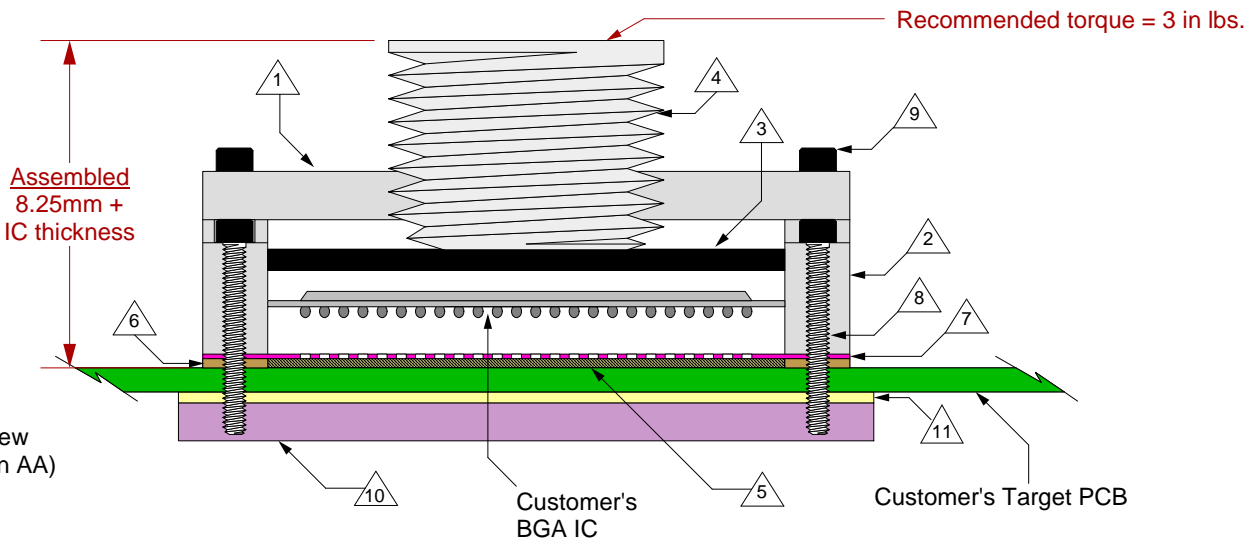
GHz BGA Socket - Direct mount, solderless

Top View




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

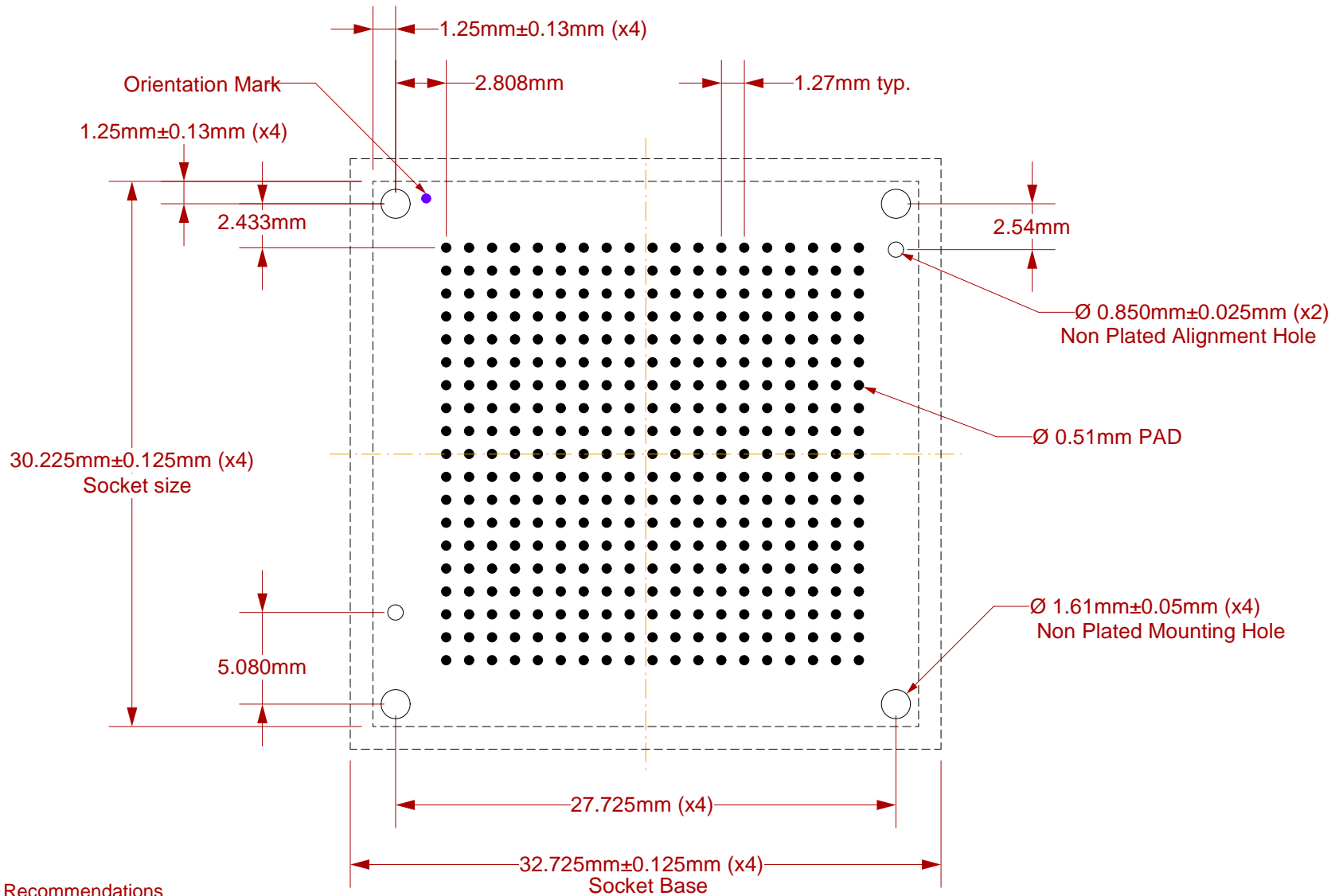


- 1 Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.
- 2 Socket base: Black anodized Aluminum. Thickness = 5mm.
- 3 Compression Plate: Black anodized Aluminum. Thickness = 2.5mm.
- 4 Compression screw: Black anodized Aluminum. Thickness = 5mm, Hex socket = 5mm.
- 5 Elastomer: 40 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.75mm.
- 6 Elastomer Guide: Non-clad FR4. Thickness = 0.75mm.
- 7 Ball Guide: Kapton polyimide.
- 8 Socket base screw: Socket head cap, alloy steel with black oxide finish, 0-80 fine thread, 12.7mm long.
- 9 Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.
- 10 Insulation Plate: FR4/G10, 1.59mm thick.
- 11 Backing Plate: Anodized Aluminum 6.35mm thick.

	SG-BGA-6065 Drawing	Status: Released	Scale: -	Rev: C
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: H. Hansen		Date: 9/4/02
		File: SG-BGA-6065 Dwg.mcd	Modified: 7/17/09, AE	

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

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




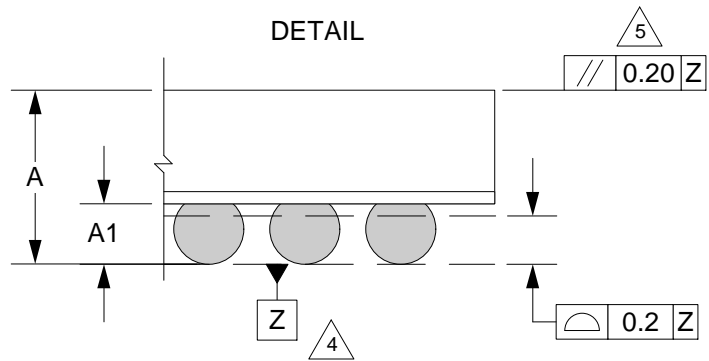
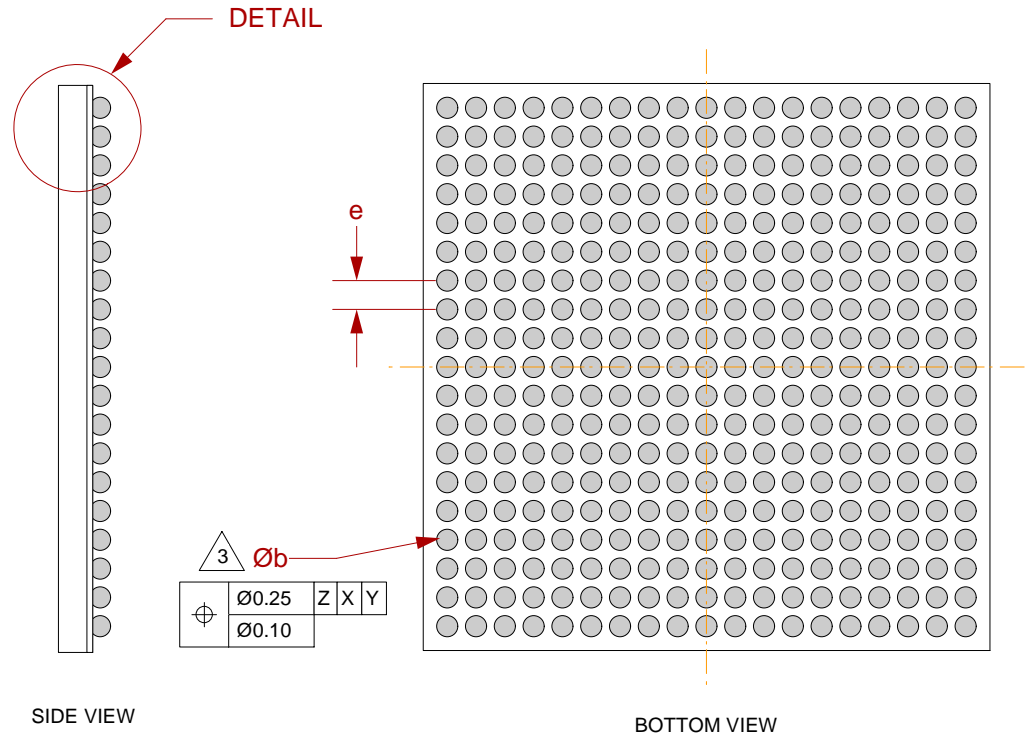
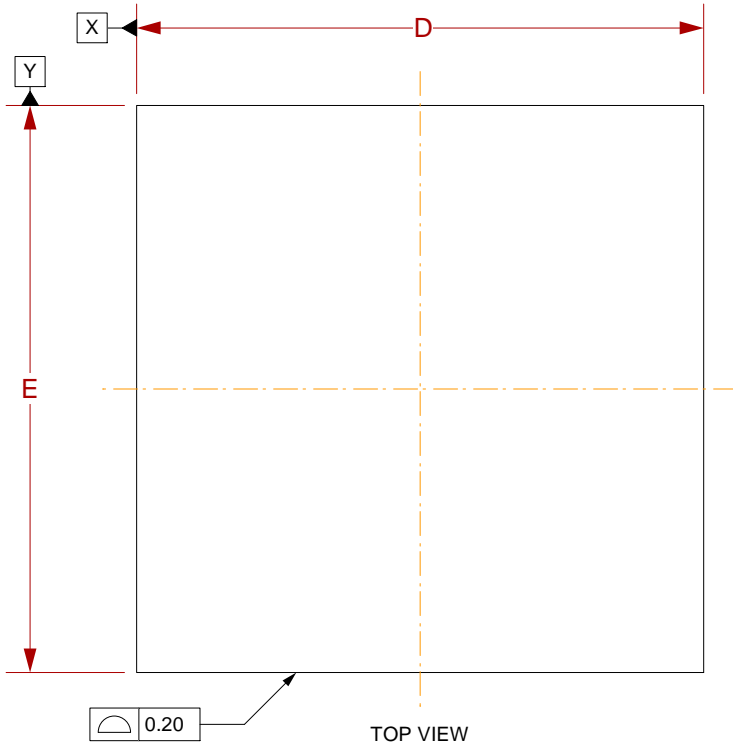
Target PCB Recommendations

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.

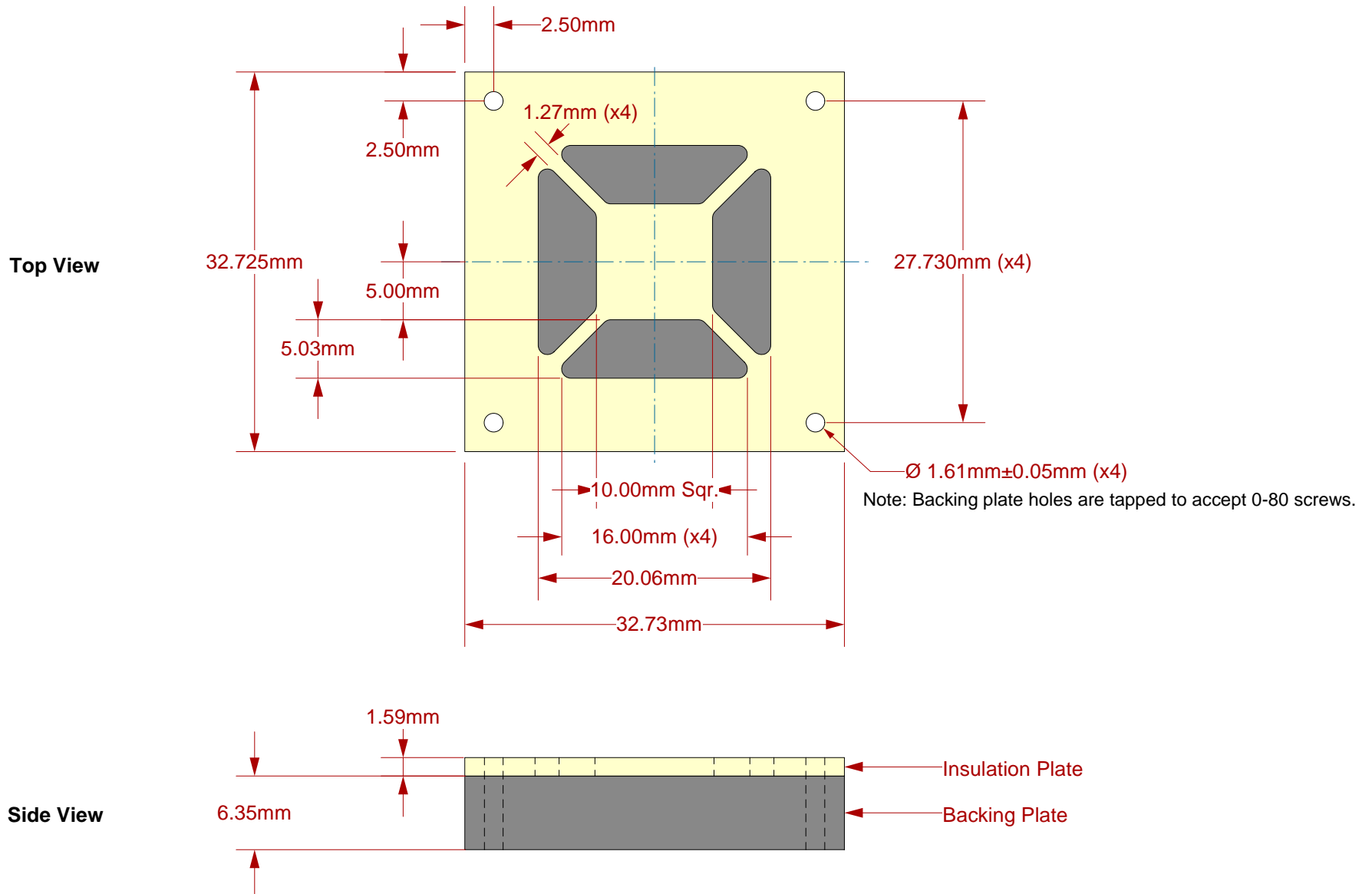
 <p>© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	SG-BGA-6065 Drawing		Status: Released	Scale: 3:1	Rev: C
	Drawing: H. Hansen			Date: 9/4/02	
	File: SG-BGA-6065 Dwg.mcd			Modified: 7/17/09, AE	




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		3.24
A1	0.8	1.00
b		0.93
D	25.00 BSC	
E	25.00 BSC	
e	1.27 BSC	

Array 19x19



Description: Backing Plate

	SG-BGA-6065 Drawing	Status: Released	Scale: -	Rev: C
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		File: SG-BGA-6065 Dwg.mcd	Modified: 7/17/09, AE	

All dimensions are in mm.
All tolerances are +/- 0.125mm.
(Unless stated otherwise)