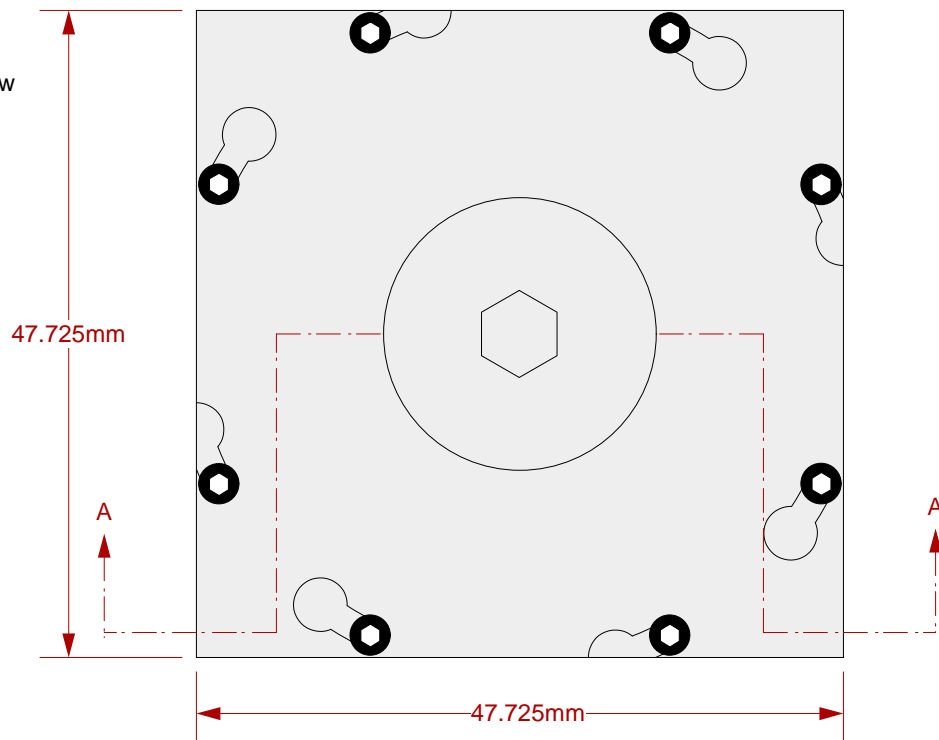


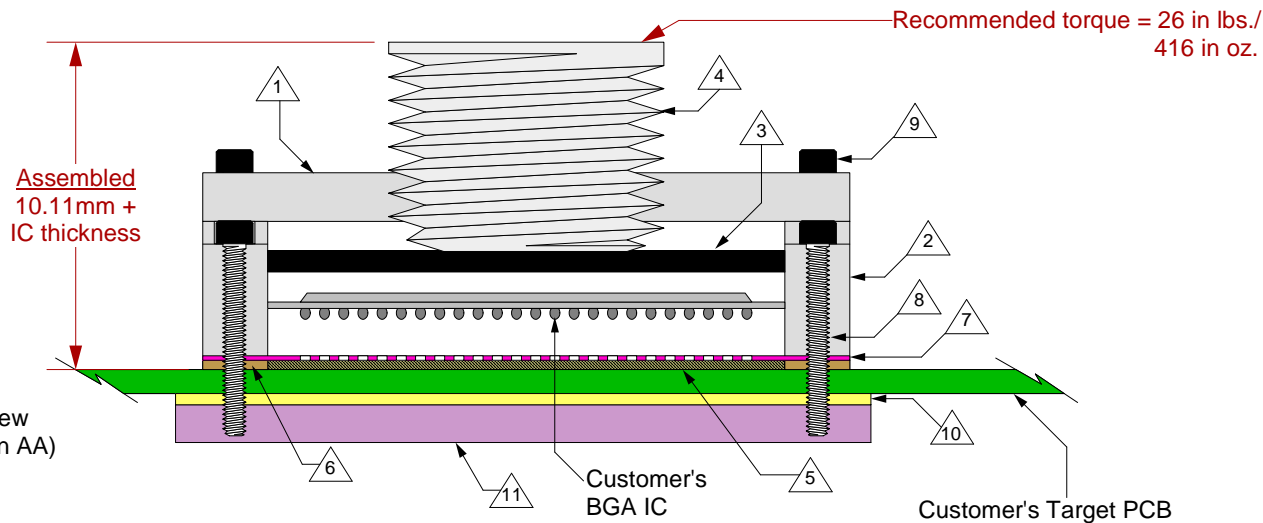
GHz BGA Socket - Direct mount, solderless

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

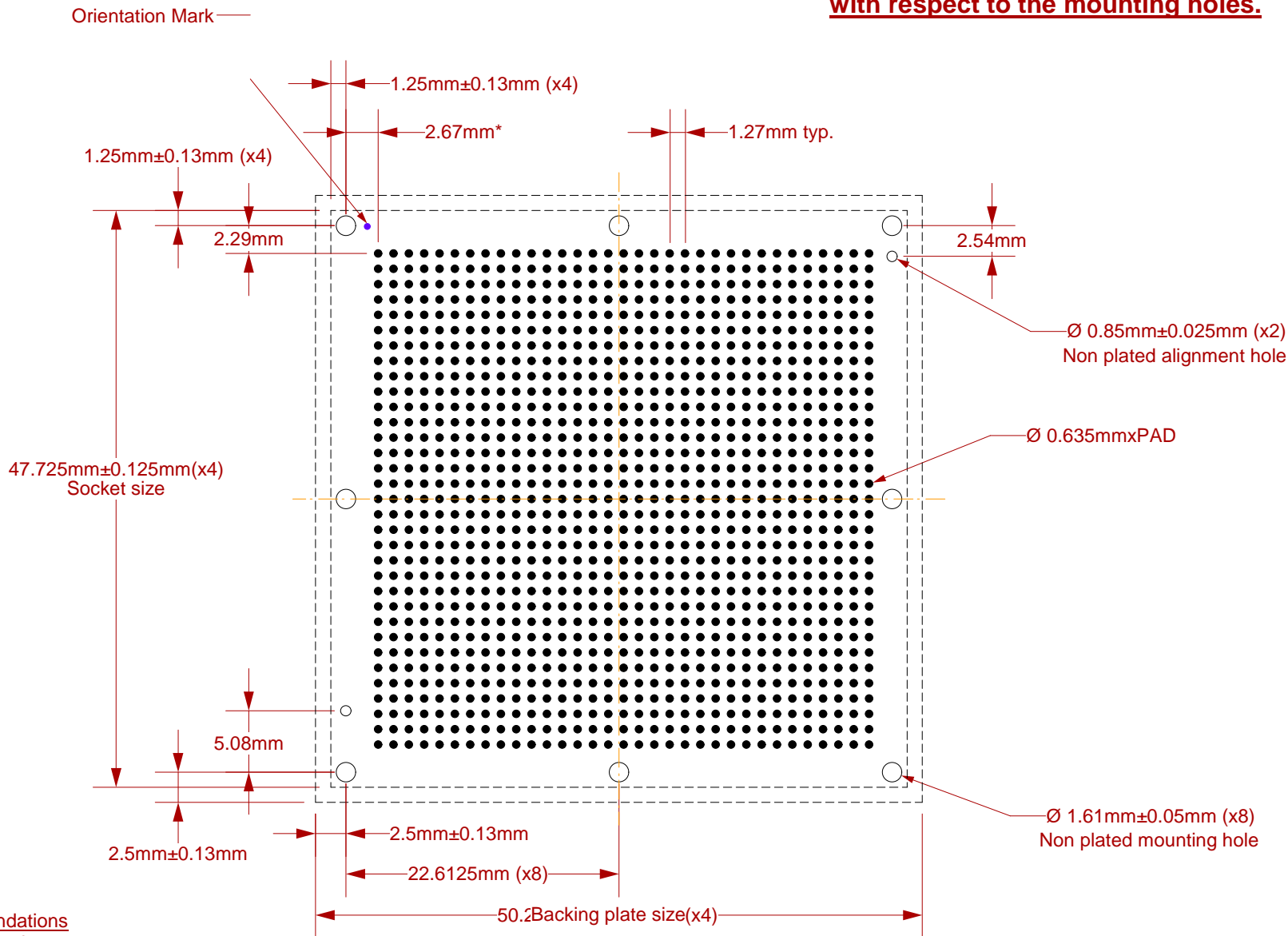


- △ 1 Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.
- △ 2 Socket base: Black anodized Aluminum. Thickness = 6.5mm.
- △ 3 Compression Plate: Black anodized Aluminum. Thickness = 4.0mm.
- △ 4 Compression screw: Clear anodized Aluminum. Thickness = 5mm, Hex socket = 5mm.
- △ 5 Elastomer: 40 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.75mm.
- △ 6 Elastomer Guide: Cirlex or equivalent. 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, 12.7mm long.
- △ 9 Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.
- △ 10 Insulation Plate: FR4/G10, Thickness = 1.59mm.
- △ 11 Backing Plate: Black anodized Aluminum. Thickness = 6.35mm.

	SG-BGA-6016 Drawing	Status: Released	Scale: -	Rev: H
	© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com	Drawing: Meghann Fedde		Date: 8/20/01
		File: SG-BGA-6016 Dwg	Modified: 7/16/09, 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.**




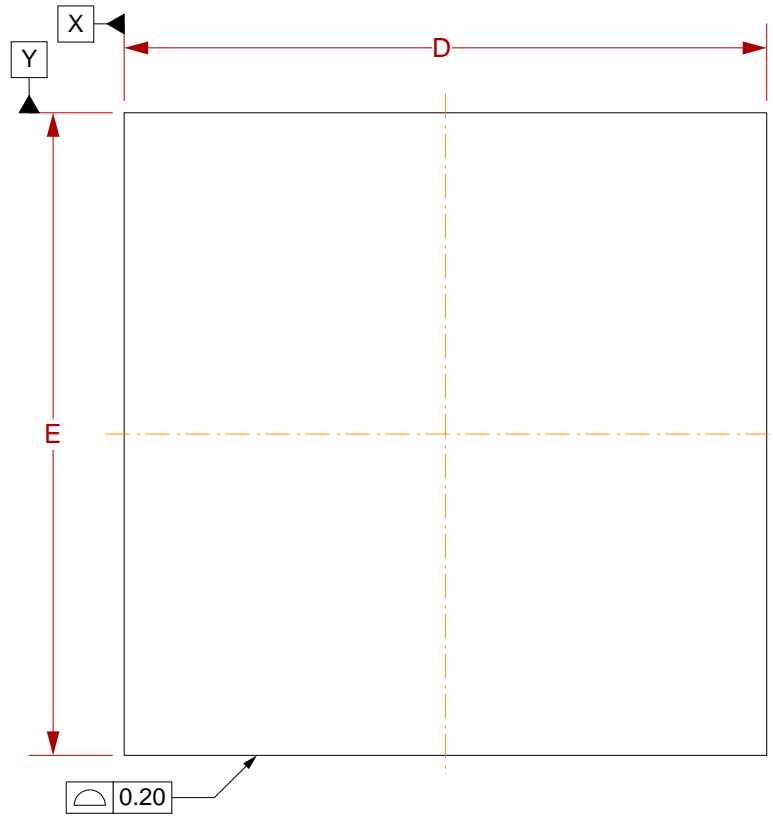
Target PCB Recommendations

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

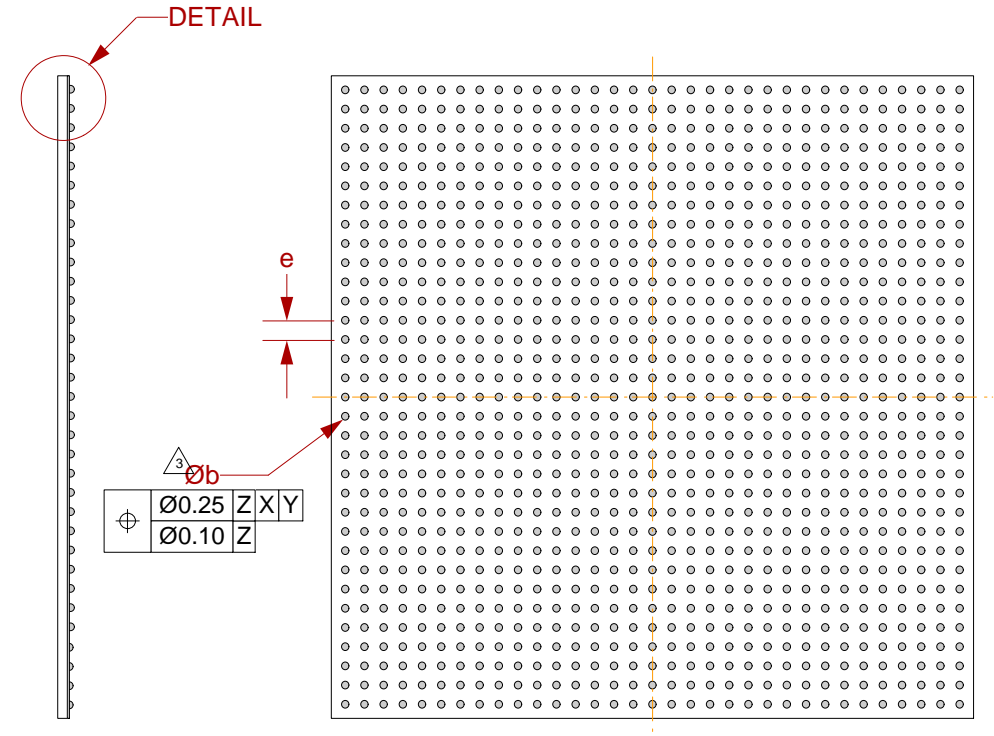
NOTE: Steel backing plate may be required based on end user's application

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

 <p>© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	<p>SG-BGA-6016 Drawing</p>		<p>Status: Released</p>	<p>Scale: 2:1</p>	<p>Rev: H</p>
	<p>Drawing: Meghann Fedde</p>		<p>Date: 8/20/01</p>		
	<p>File: SG-BGA-6016 Dwg</p>		<p>Modified: 7/16/09, AE</p>		

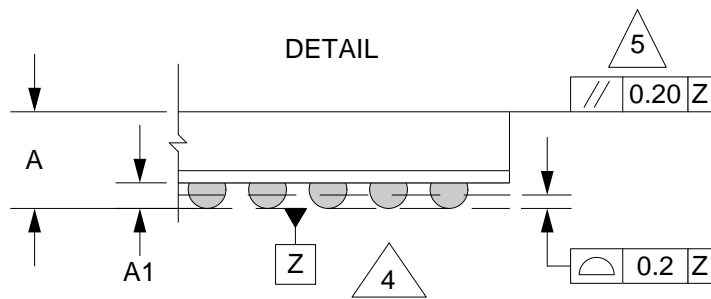


TOP VIEW



SIDE VIEW


BOTTOM VIEW



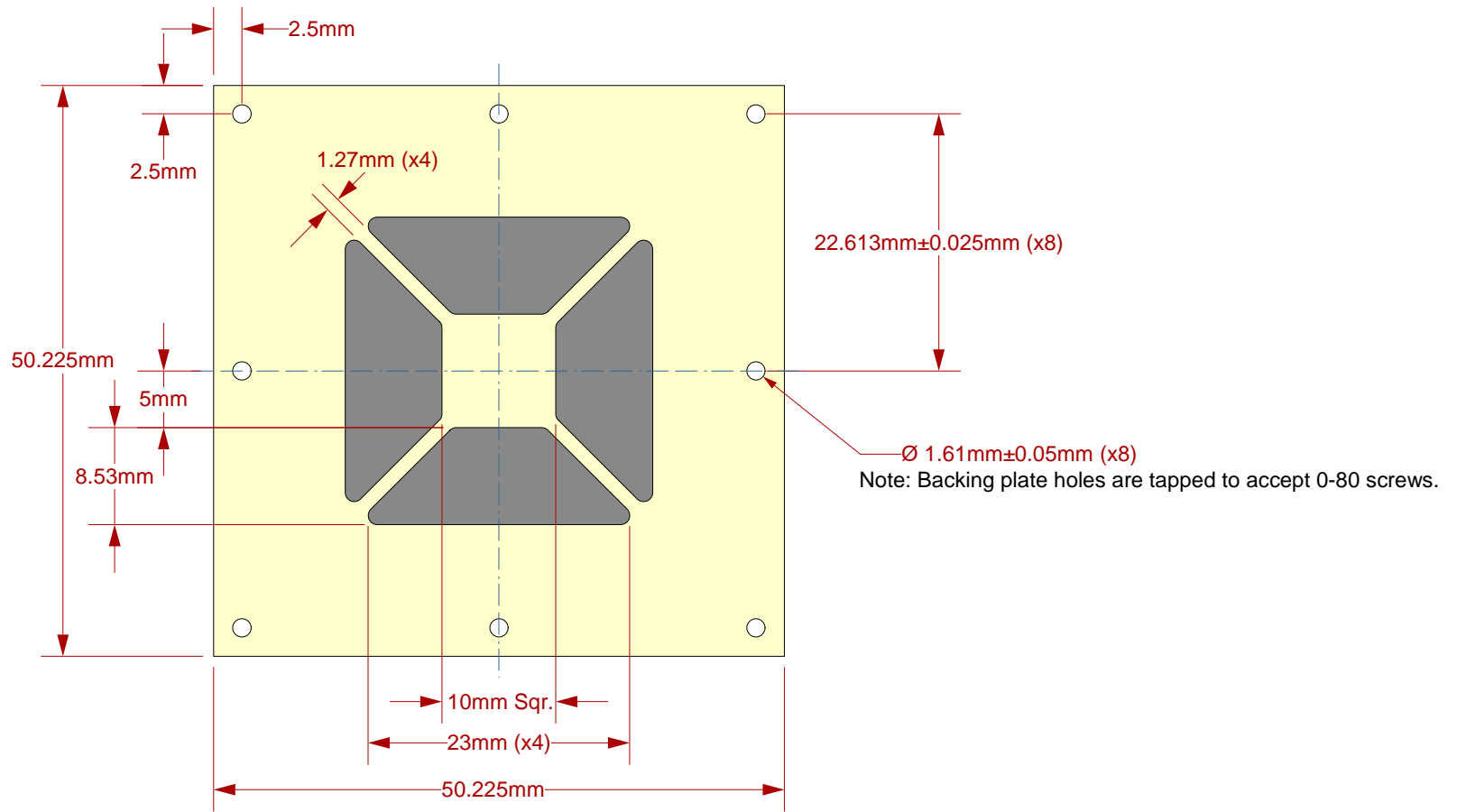
- $\triangle 1$ Dimensions are in millimeters.
- $\triangle 2$ Interpret dimensions and tolerances per ASME Y14.5M-1994.
- $\triangle 3$ Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- $\triangle 4$ Datum Z (seating plane) is defined by the spherical crowns of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

DIM	MIN	MAX
A		2.5
A1	0.5	0.7
b		0.90
D	42.50 BSC	
E	42.50 BSC	
e	1.27 BSC	

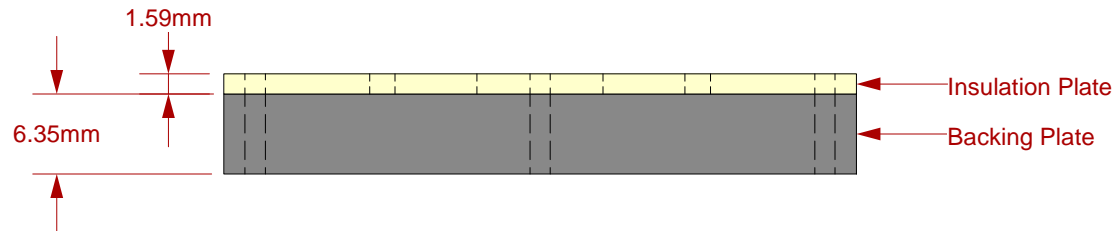
Array: 33x33

 <p>SG-BGA-6016 Drawing</p> <p>© 2009 IRONWOOD ELECTRONICS, INC. 11351 Rupp Drive, Suite 400, Burnsville, MN 55337 Tele: (952) 229-8200 www.ironwoodelectronics.com</p>	Status: Released	Scale: -	Rev: H
	Drawing: Meghann Fedde		Date: 8/20/01
	File: SG-BGA-6016 Dwg		Modified: 7/16/09, AE


Top View



Side View



Description: Insulation Plate and Backing Plate

	SG-BGA-6016 Drawing	Status: Released	Scale: -	Rev: H
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		File: SG-BGA-6016 Dwg	Modified: 7/16/09, AE	

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