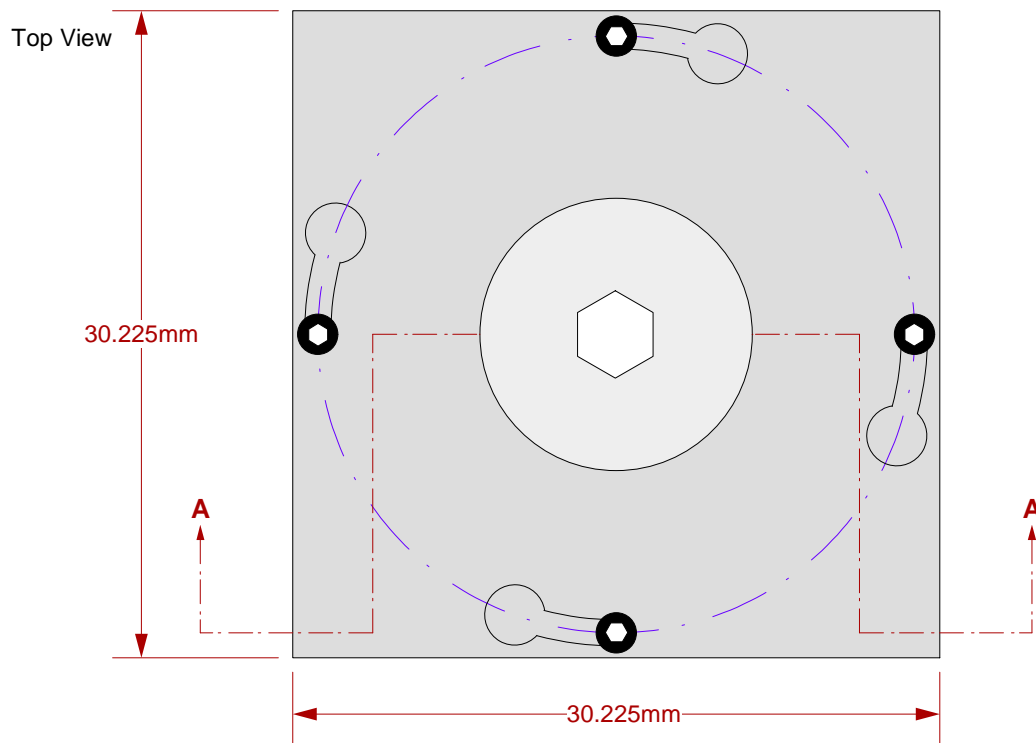


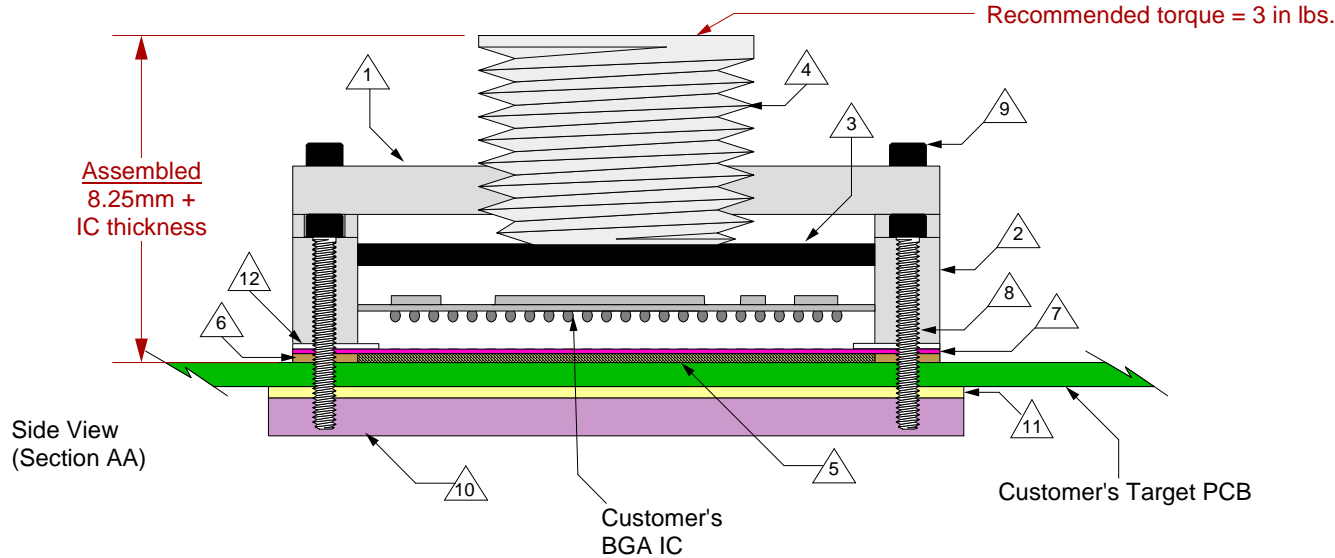
# GHz BGA Socket - Direct mount, solderless



## 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 = 6.5mm.
- 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, 15.87mm 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.
- 12 IC Guide: Torlon



## SG-BGA-6251 Drawing

Status: Released

Scale: -

Rev: C



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Tele: (952) 229-8200  
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Drawing: J. Glab

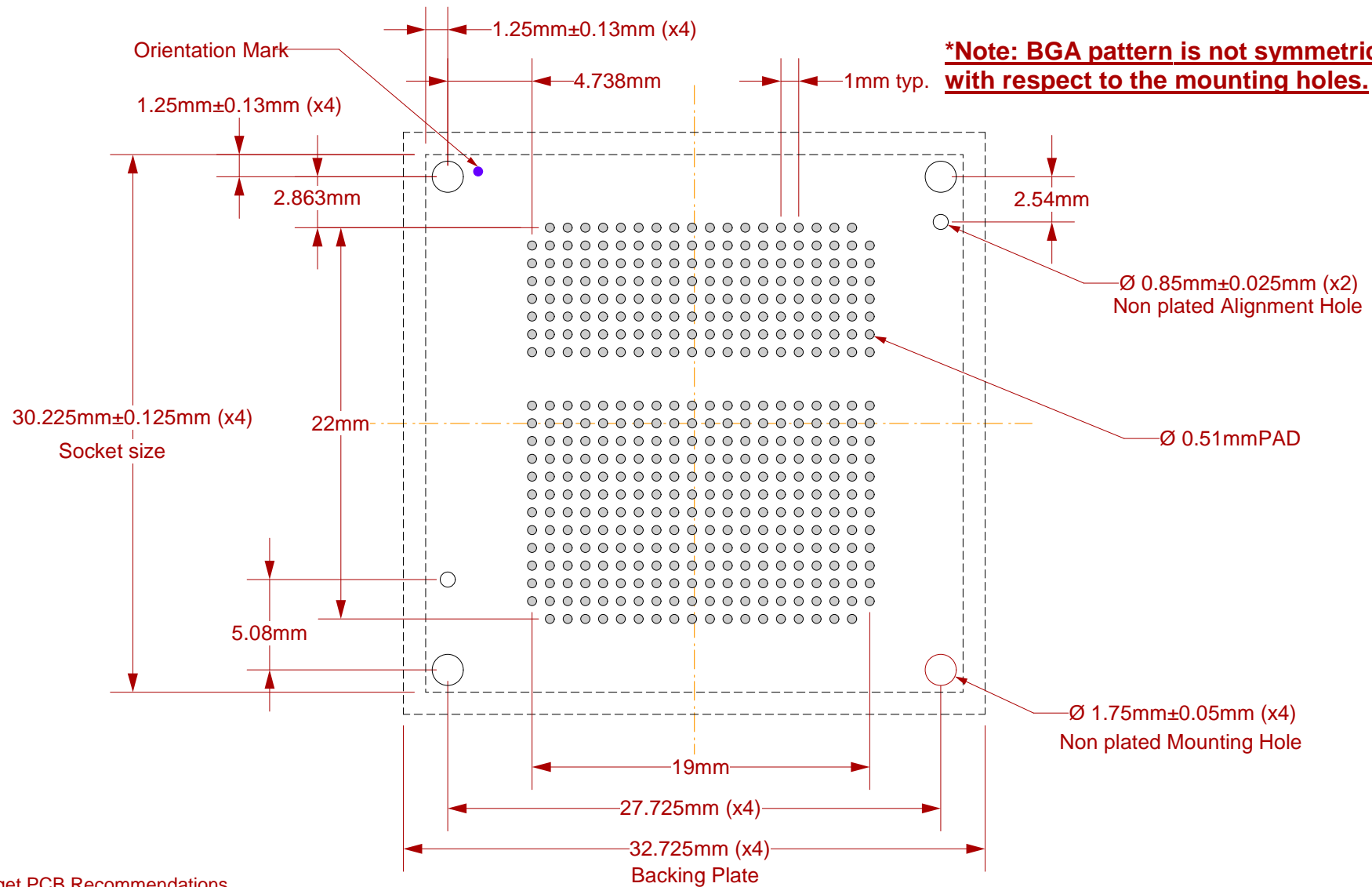
Date: 12/26/07

File: SG-BGA-6251 Dwg.mcd

Modified: 07/08/14, DH

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

Recommended PCB Layout  
Top View




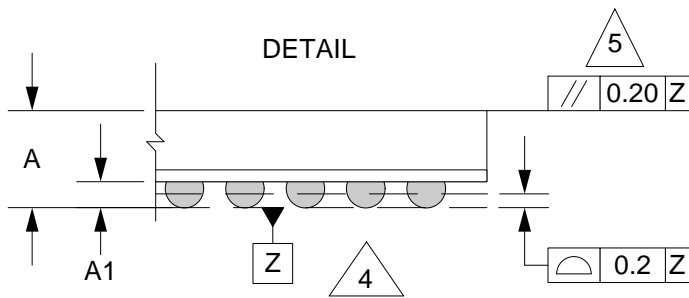
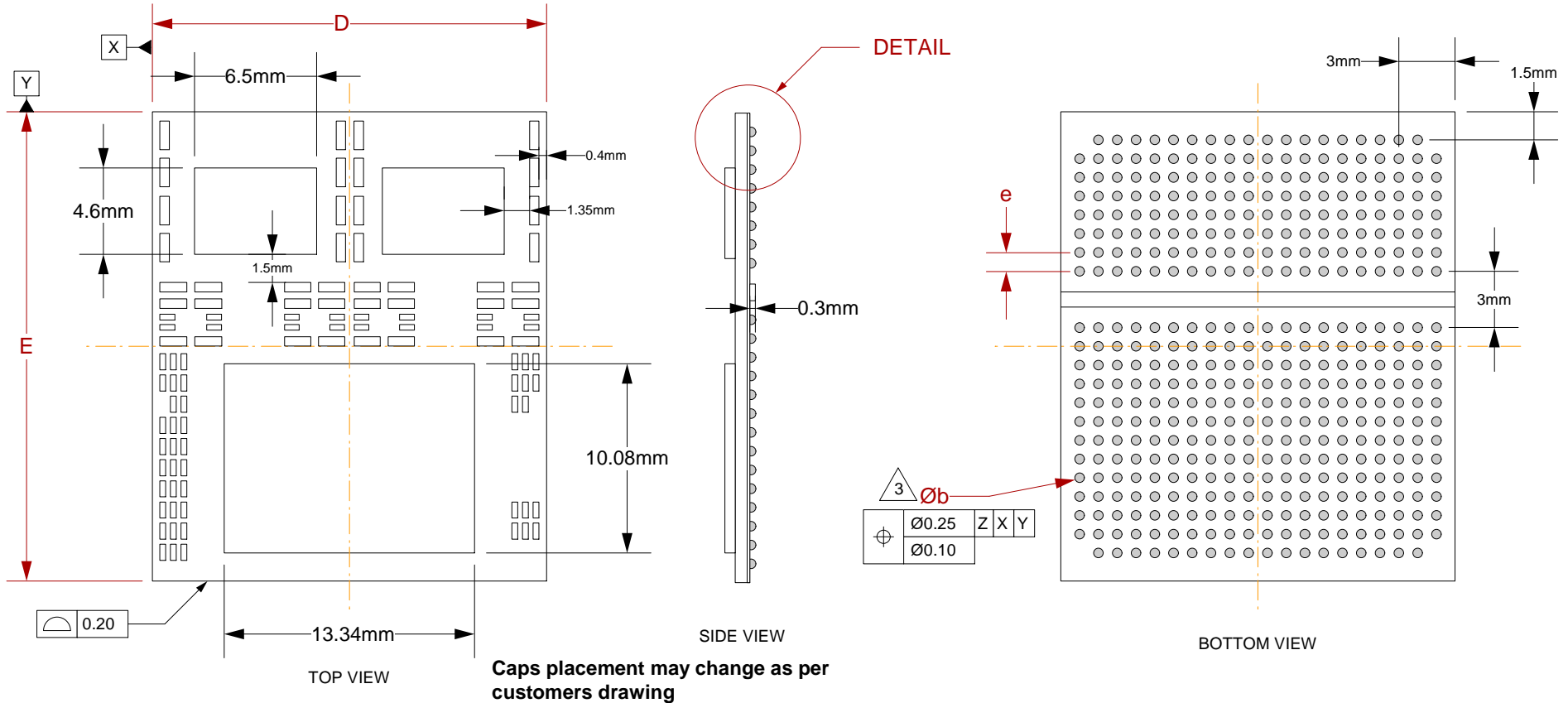
Target PCB Recommendations

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: ±0.025mm [±0.001"] unless stated otherwise.


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	<p>Drawing: J. Glab</p>		<p>Date: 12/26/07</p>		
	<p>File: SG-BGA-6251 Dwg.mcd</p>		<p>Modified: 07/08/14, DH</p>		



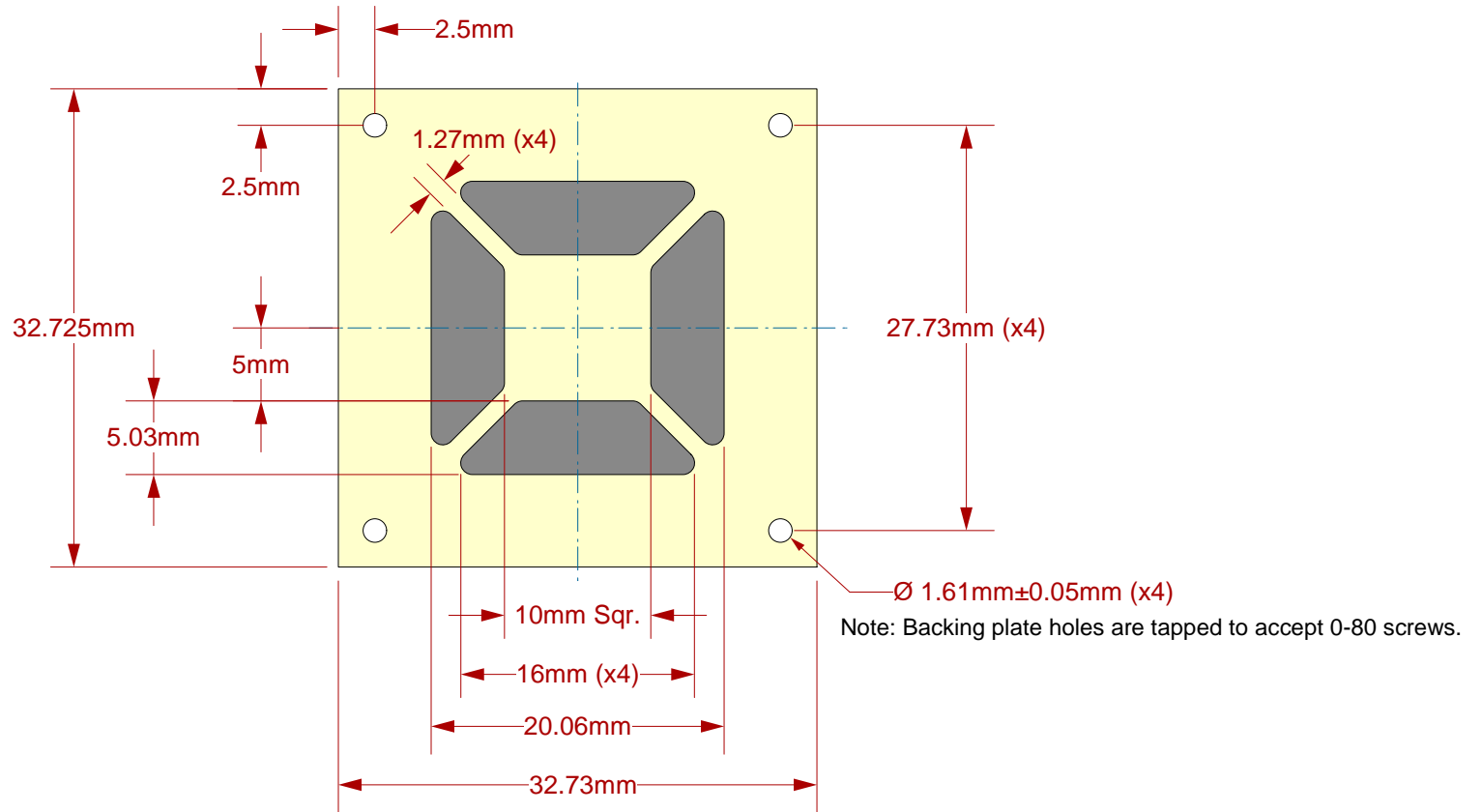
- 1 Dimensions are in millimeters.
- 2 Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
- 4 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
- 5 Parallelism measurement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

DIM	MIN	MAX
A		2.6
A1	0.4	0.6
b	0.56	0.60
D	21.00 BSC	
E	25.00 BSC	
e	1.0 BSC	

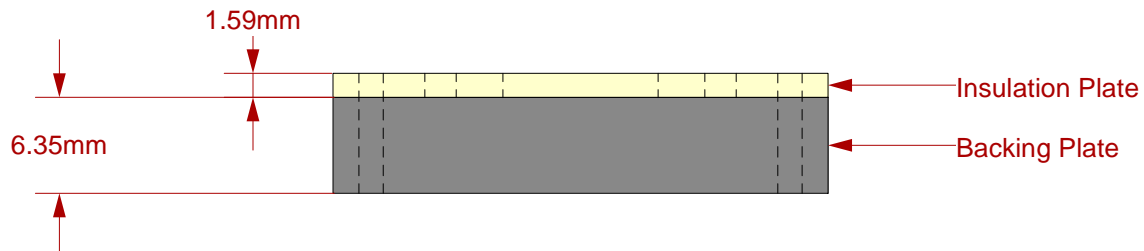
Array 19x23

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	<p>Drawing: J. Glab</p>	<p>Date: 12/26/07</p>		<p>Modified: 07/08/14, DH</p>
	<p>File: SG-BGA-6251 Dwg.mcd</p>			


Top View



Side View



Description: Backing Plate

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	<p>Drawing: J. Glab</p>	<p>Date: 12/26/07</p>		
	<p>File: SG-BGA-6251 Dwg.mcd</p>	<p>Modified: 7/22/09, AE</p>		

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