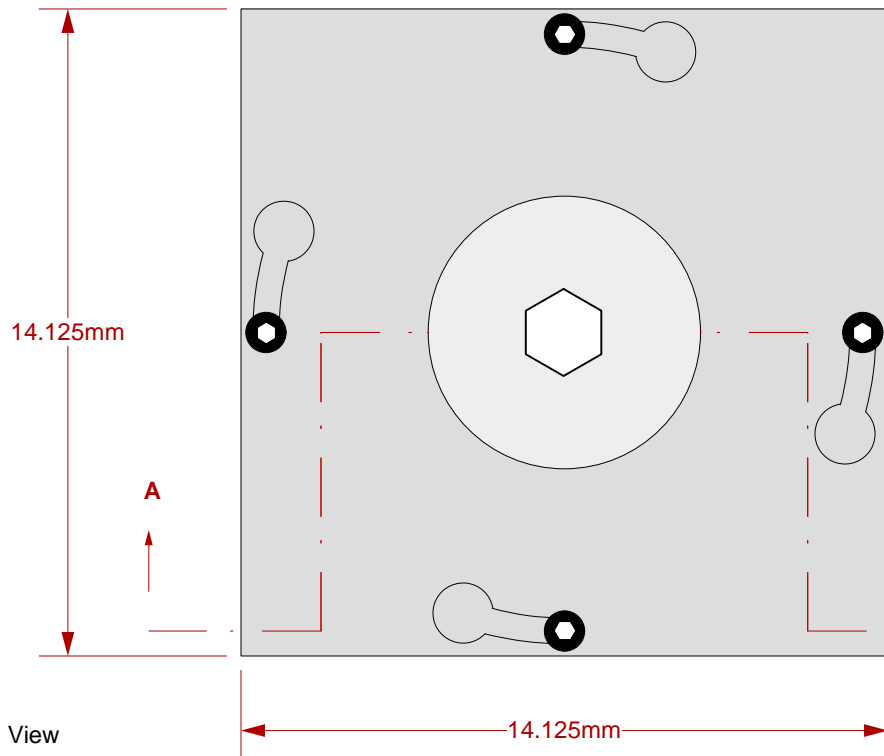


# GHz MLF Socket - Epoxy mount, solderless

## Features

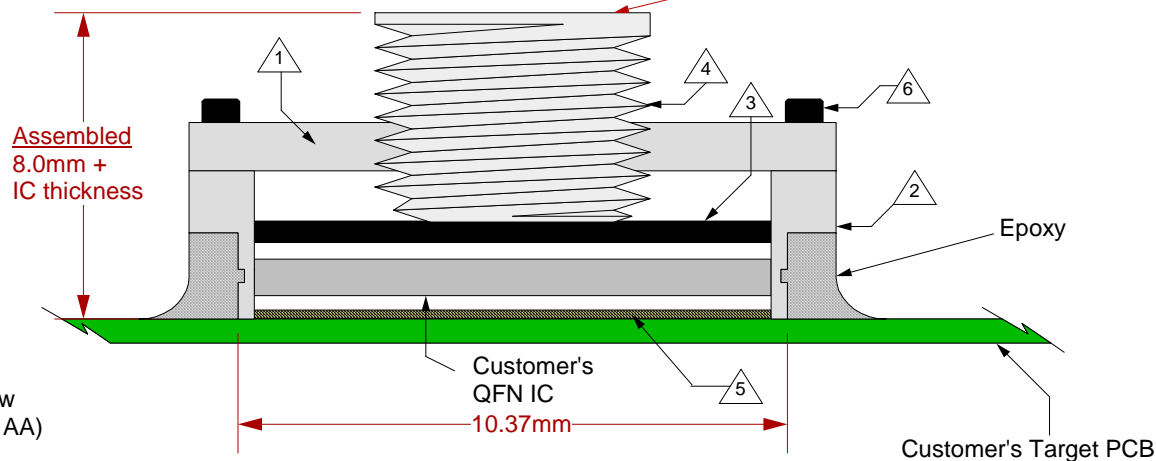
- Directly mounts to target PCB (needs epoxy)
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Easily removable socket lid



- 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: 20 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.5mm.
- 6 Socket lid screw: Socket head cap, Alloy steel with black oxide finish, 0-80 fine thread, 4.76mm long.

Recommended Torque= 10 in oz

Top View



Note: Alignment guide for positioning socket base to target PCB will be supplied.

## SG-MLF-7028 Drawing

Status: Released

Scale: -

Rev: B



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Drawing: Vinayak R

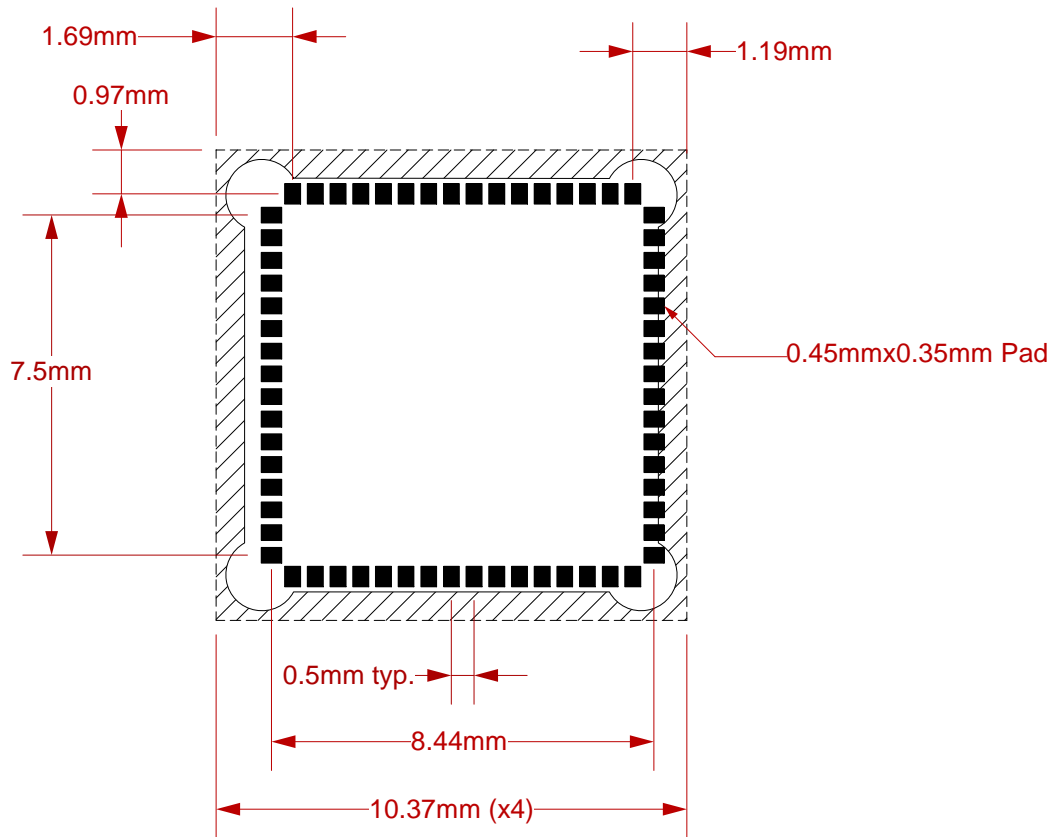
Date: 1/14/09

File: SG-MLF-7028 Dwg

Modified: 08/01/14

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


**PAGE 1 OF 4**

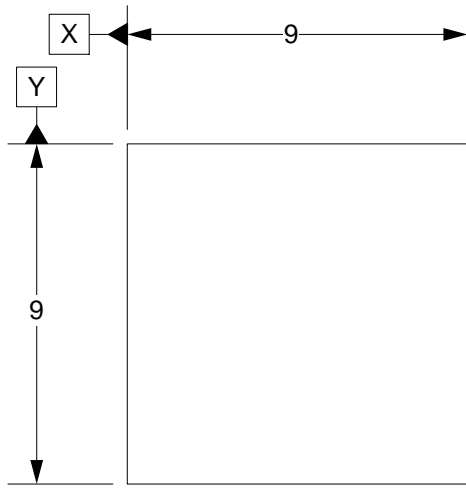


Target PCB Recommendations

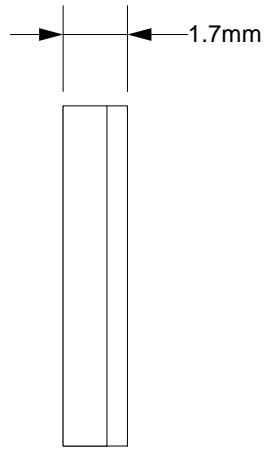
Total thickness: 1.6mm min.  
 Plating: Gold or Solder finish  
 PCB Pad height: Same or higher than solder mask

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

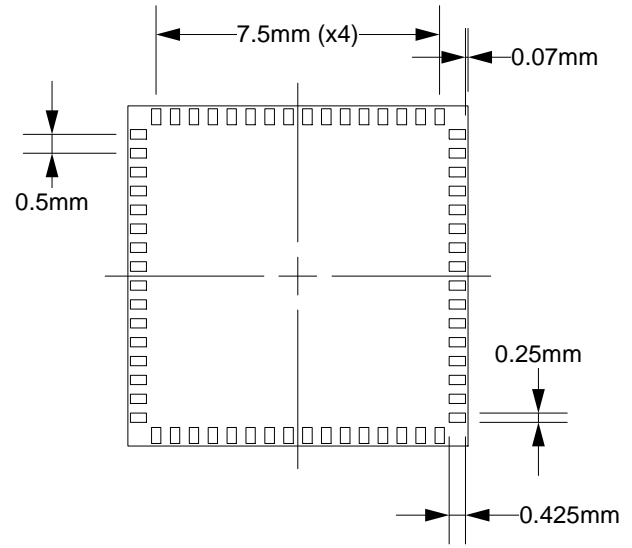
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	File: SG-MLF-7028 Dwg		Modified: 08/01/14		



Top View



Side View



Bottom View

**SG-MLF-7028 Drawing**

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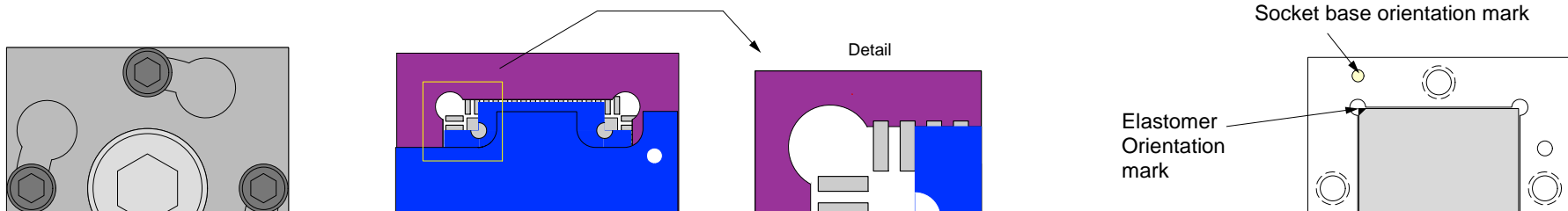
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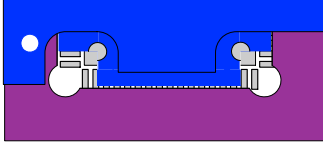
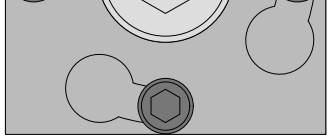
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Modified: 08/01/14

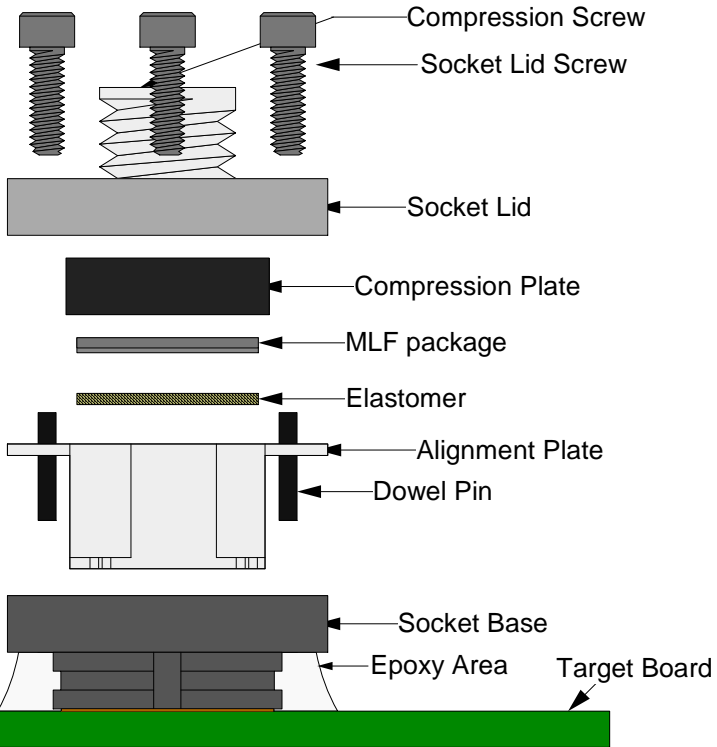
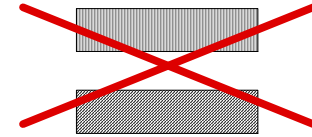
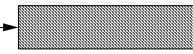
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Top View Alignment Plate

When elastomer orientation mark is on upper left corner, side view of elastomer should be



**User Instructions:**

1. Insert alignment plate onto dowel pins in socket base. Place alignment plate + socket base assembly onto target board.
2. Align cutouts on alignment plate with four corner pads on target board, hold socket base on to board tightly with finger and put a drop of super glue on each corner. Let it dry, remove the alignment plate, then run a bead of epoxy around socket base and let it cure for 24 hours at room temperature. Recommended epoxy: DP420 (3M brand, 15 min work life). Other equivalent epoxies can be substituted. Cure at room temperature. **Note: Do not cure in the oven.**
3. Place elastomer inside the socket base cavity (direction and orientation are critical) as shown above.
4. Place QFN package and compression plate into the socket base cavity.
5. Assemble socket lid onto socket base with socket lid screws.
6. Assemble compression screw into socket lid and apply 0.6 in lb -1 in lb torque.

**SG-MLF-7028 Drawing**

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