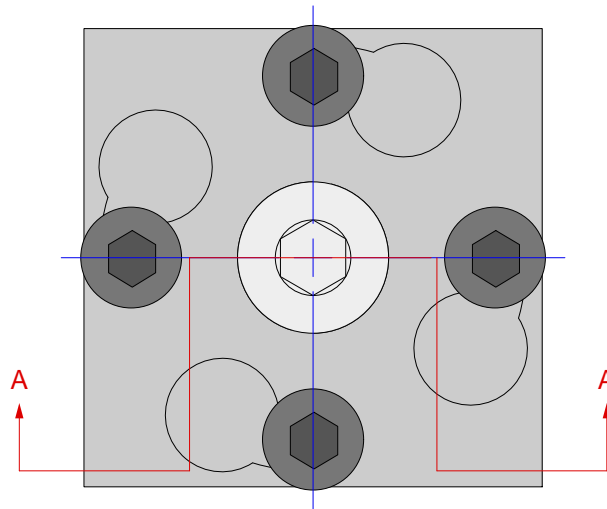


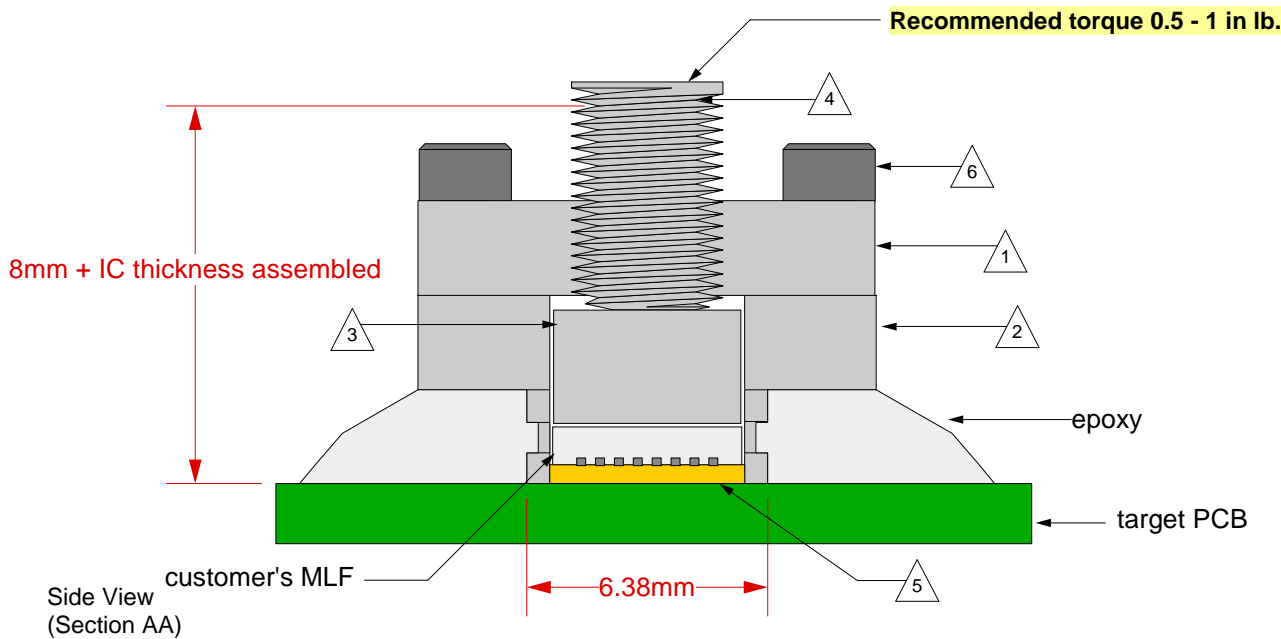
Top View



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 = 3 mm.
- △ 4 Compression screw: Black steel M4, 6-8mm long, 2mm hex
- △ 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: Shoulder screw, 18-8 SS, 0-80 fine thread.

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

SG-MLF-7036 Drawing

Status: Released

Scale: -

Rev: B

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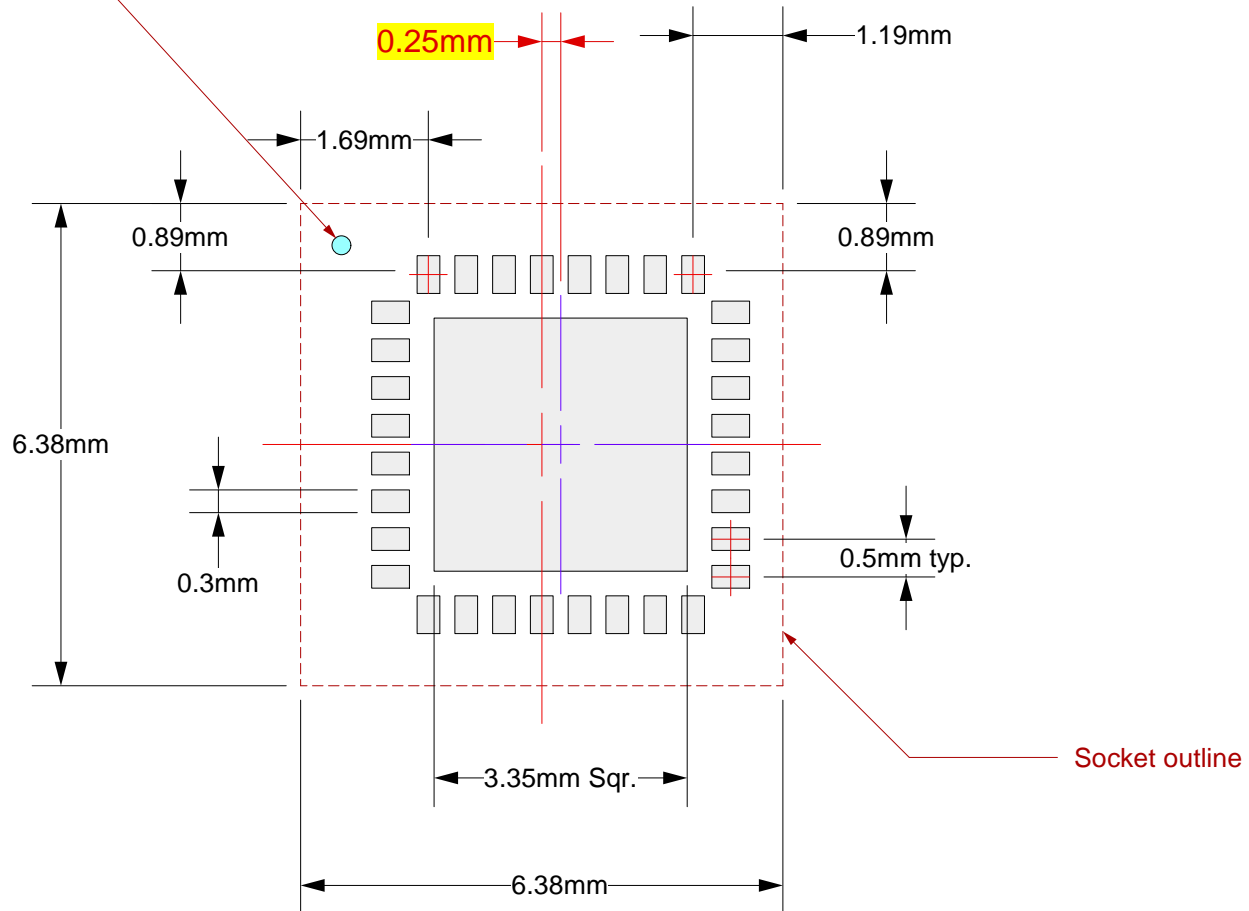
Modified: 08/01/14

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

Recommended PCB Layout
Top View

***Note: MLF pattern is not symmetrical with respect to the socket body outline. It is offset 0.25mm to the right of center.**

Orientation Mark
On socket (pin 1)



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.

SG-MLF-7036 Drawing

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Scale: -

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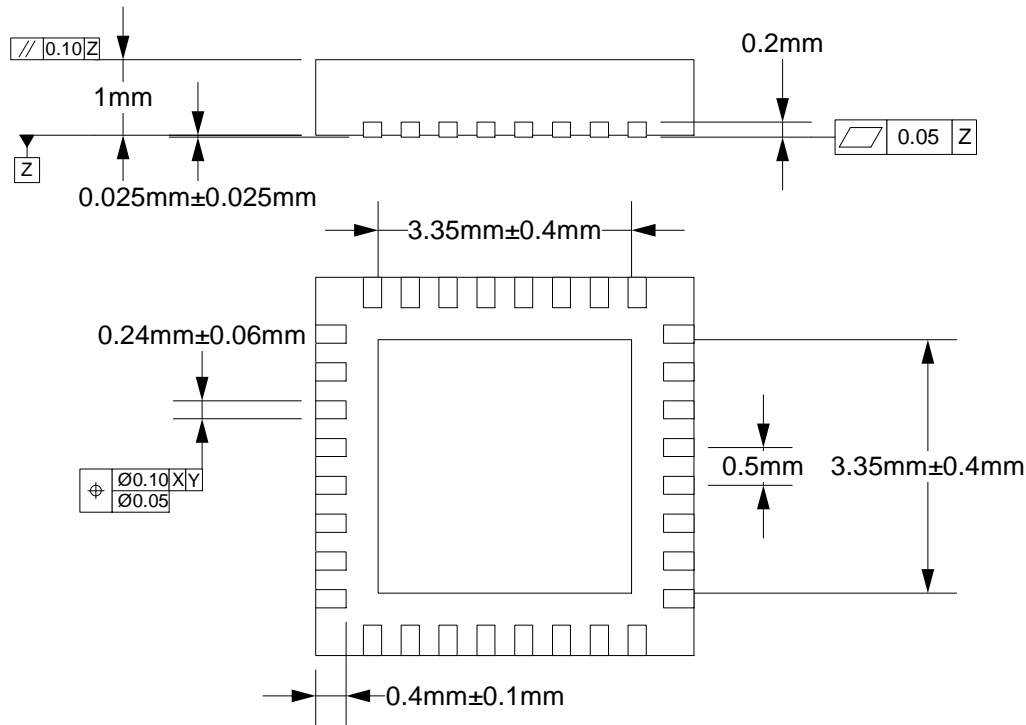
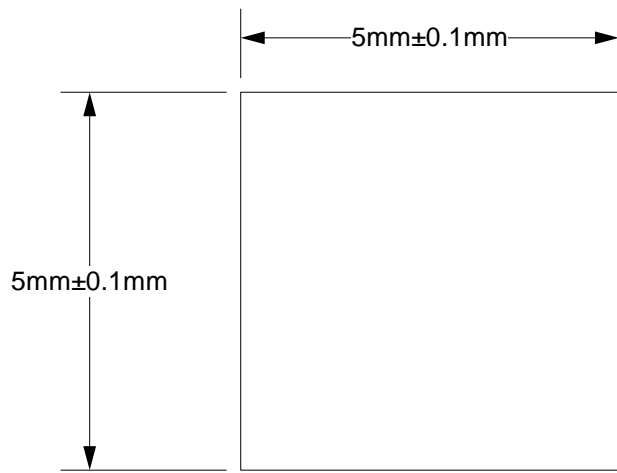
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1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Parallelism measurement shall exclude any effect of mark on top surface of package.

SG-MLF-7036 Drawing

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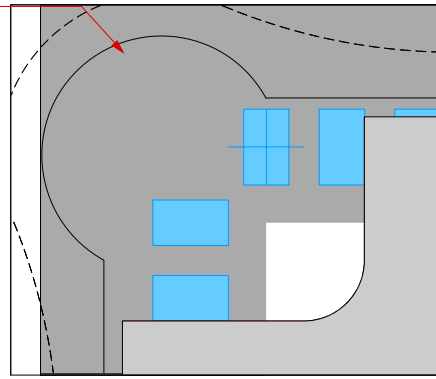
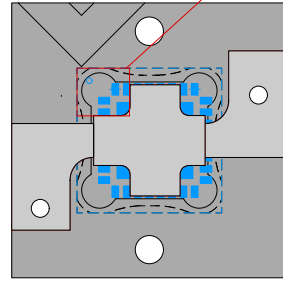
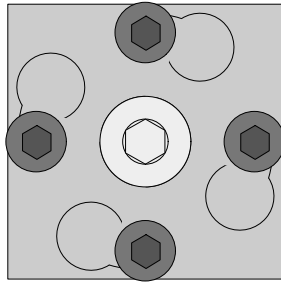
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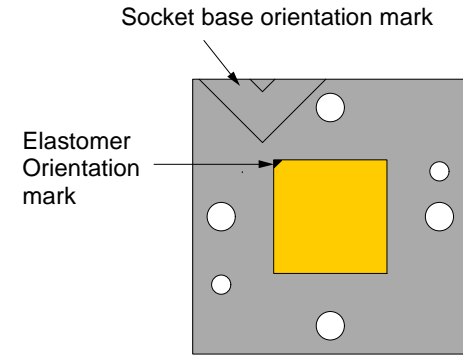
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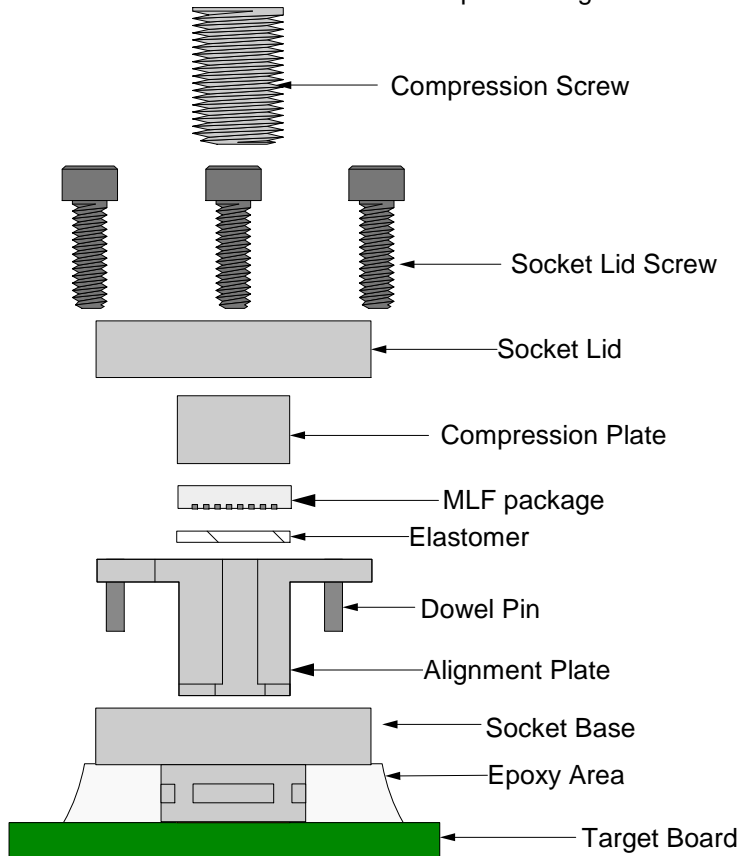
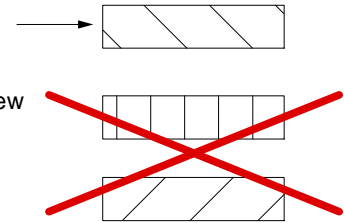
Modified: 08/01/14



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 socket base by aligning dowel pins. Place alignment plate + socket base assembly onto target board.
2. Align tabs on alignment plate with corner pads on target board as shown above, 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. **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 MLF 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 8-16 in-oz torque.

SG-MLF-7036 Drawing

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