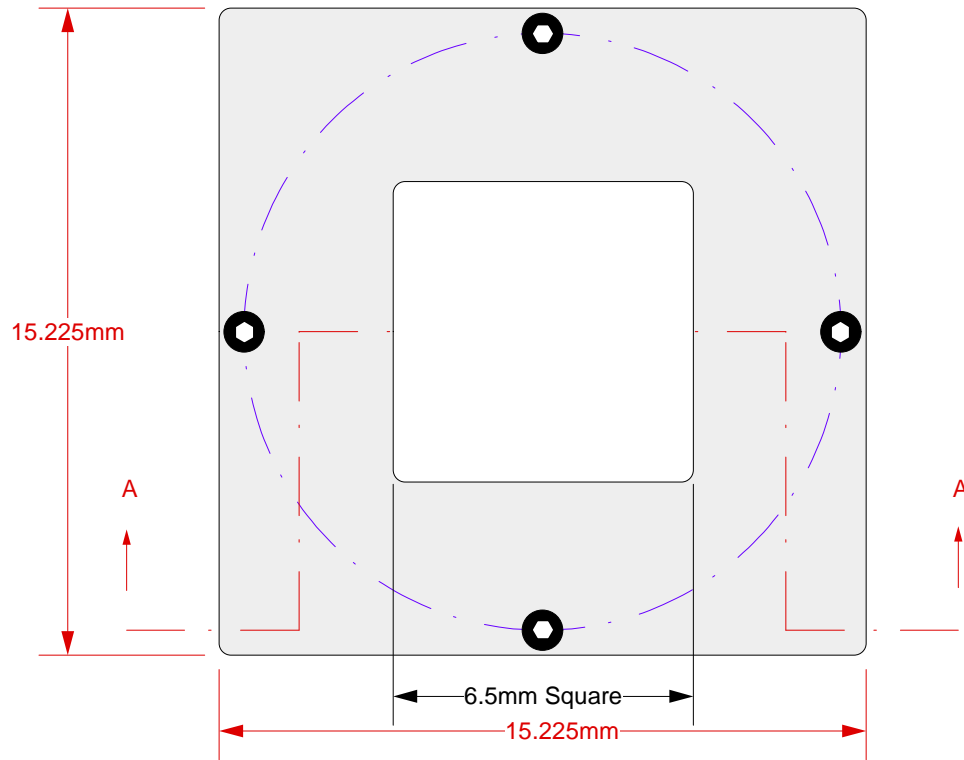


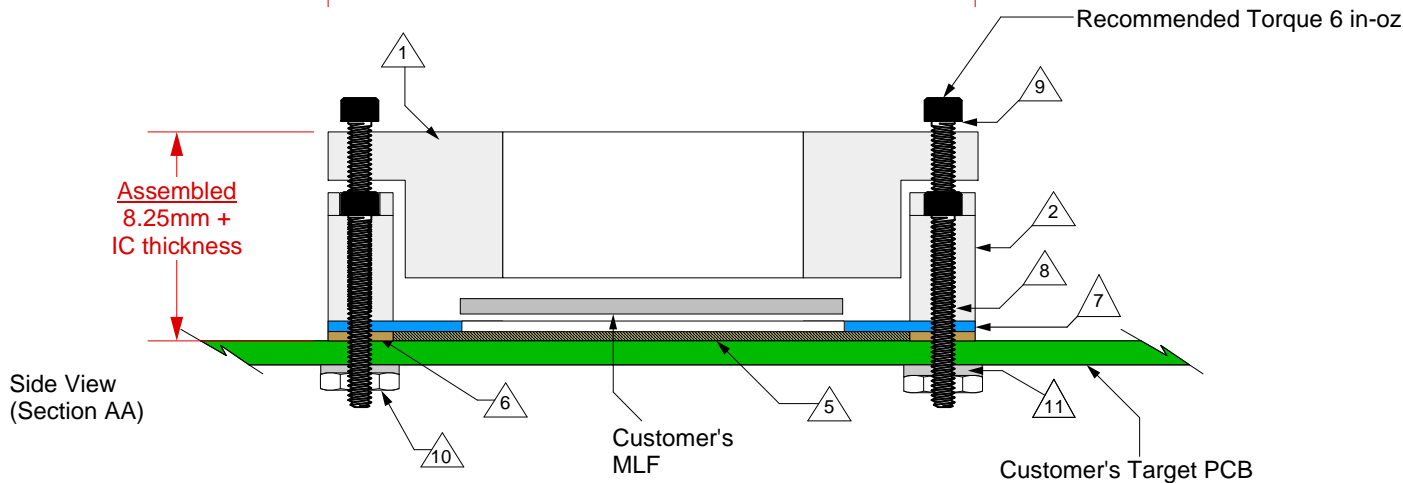
Top View




# GHz MLF 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
- IC guide prevents over compression of elastomer
- Easily removable swivel socket lid



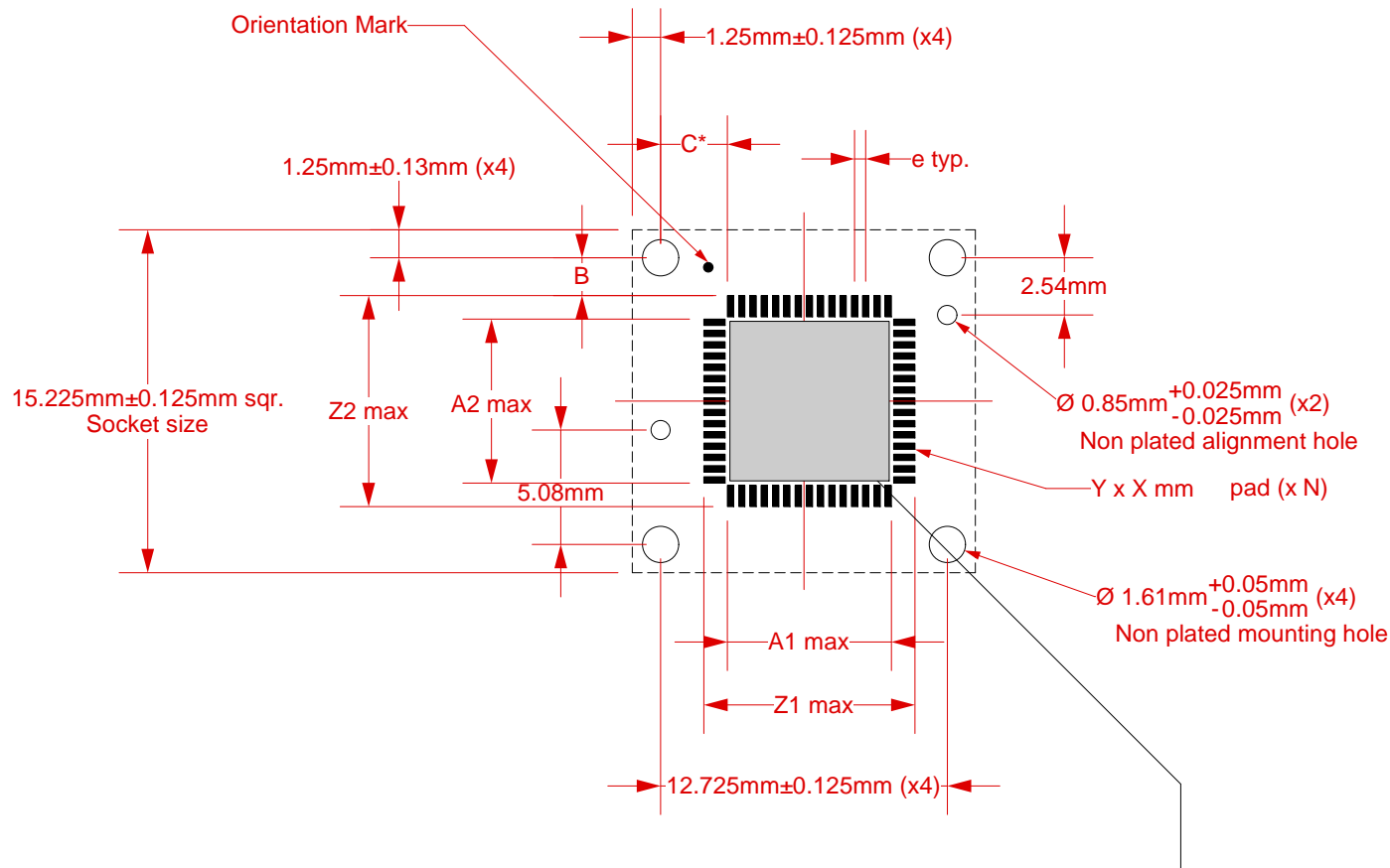
- △ 1 Socket Lid: Black anodized Aluminum. Thickness = 2.5mm.
- △ 2 Socket base: Black anodized Aluminum. Thickness = 5mm.
- △ 5 Elastomer: 20 micron dia gold plated brass filaments arranged symmetrically in a silicone rubber (63.5 degree angle). Thickness = 0.5mm.
- △ 6 Elastomer Guide: Cirlex Thickness = 0.475mm.
- △ 7 IC (MLF) Guide: Ultem1000
- △ 8 Socket base screw: Socket head cap, Alloy steel with black oxide finish, 0-80 fine thread, 9.525mm long.
- △ 9 Socket lid screw: Shoulder screw, 18-8 SS, 0-80 fine thread.
- △ 10 Socket base nut: 18-8 Stainless steel, 0-80 fine thread.
- △ 11 Nylon washer: 1.73mm ID; 4.78mm OD 0.64mm thickness.

|   |  |                           |                      |                |
|---|--|---------------------------|----------------------|----------------|
|  | <b>SG-MLF-7017 Drawing</b>   | Status: Released          | Scale: -             | Rev: B         |
|   | © 2006 IRONWOOD ELECTRONICS, INC.<br>Tele: (952) 229-8200<br>www.ironwoodelectronics.com | Drawing: Nidhi Sen        |                      | Date: 06/26/06 |
|   |  | File: SG-MLF-7017 Dwg.mcd | Modified: 6/4/09, AE |                |

All tolerances: ±0.125mm (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 mounting holes. It is offset 0.25mm to the right of center.**



\*\*\*\* To effectively conduct heat away from the package a thermal pad is recommended with vias spaced 1.0 to 1.2 mm pitch and a diameter of 0.3 to 0.33 mm. Ideally 1 via for every 3 leads has been shown to work well.


Target PCB Recommendations

Total thickness: 1.6mm min.

Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

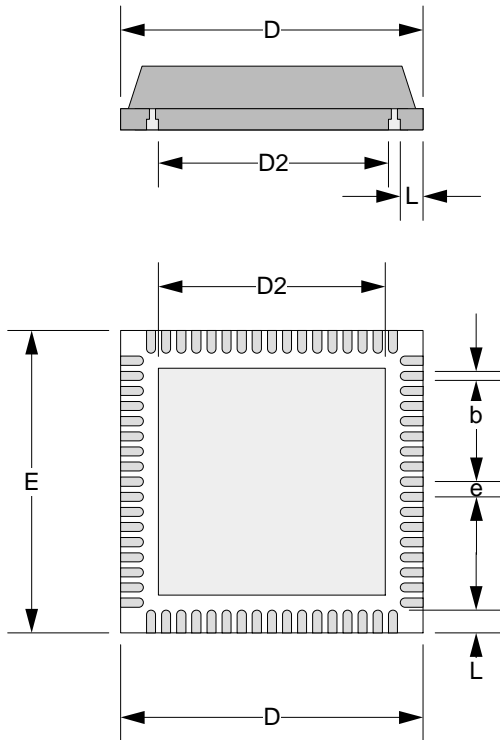
NOTE: Steel backing plate may be required based on end user's application


|   |  |                           |                      |                |
|---|--|---------------------------|----------------------|----------------|
|  | <b>SG-MLF-7017 Drawing</b>   | Status: Released          | Scale: 3:1           | Rev: B         |
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|   |  | File: SG-MLF-7017 Dwg.mcd | Modified: 6/4/09, AE |                |

| Package Code | C    | B    | Z1max | A1max | Z2max | A2 max | e    | X    | Y    | N  | Thermal Pad Recommendations |
|--------------|------|------|-------|-------|-------|--------|------|------|------|----|-----------------------------|
| MLF76A       | 2.89 | 1.68 | 9.36  | 7.45  | 9.36  | 7.45   | 0.4  | 0.25 | 0.96 | 76 | 6.84 x 6.84                 |
| MLF60A       | 2.97 | 1.68 | 9.36  | 7     | 9     | 7      | 0.5  | 0.28 | 0    | 60 | 7.08 x 7.08                 |
| MLF64A       | 2.72 | 1.68 | 9.36  | 7.78  | 9.36  | 7.78   | 0.5  | 0.28 | 0.69 | 64 | 7.58 x 7.58                 |
| MLF48A       | 2.81 | 1.45 | 9.82  | 8.6   | 9.82  | 8.6    | 0.65 | 0.45 | 4.06 | 48 | 7.5 x 7.5                   |
| MLF44C       | 3.18 | 1.68 | 9.36  | 6.87  | 9.36  | 6.87   | 0.65 | 0.37 | 1.06 | 44 | 6.84 x 6.84                 |
| MLF36B       | 3.2  | 1.68 | 9.36  | 6.82  | 9.36  | 6.82   | 0.8  | 0.42 | 1.06 | 36 | 6.84 x 6.84                 |

All dimensions are in mm.

| Package Code | e    | D min | D max | E min | E max | b min | b max | L min | L max | D2   | N     |
|--------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| MLF76A       | 0.4  | 8.85  | 9.15  | 8.85  | 9.15  | 0.15  | 0.25  | 0.4   | 0.6   | 5.45 | 76    |
| MLF60A       | 0.5  | 8.85  | 9.15  | 8     | 9     | 0     | 0.3   | 0.5   | 0     | 7    | 60    |
| MLF64A       | 0.5  | 8.85  | 9.15  | 8.85  | 9.15  | 0.18  | 0.3   | 0.3   | 0.5   | 7    | 64    |
| MLF48A       | 0.65 | 8.90  | 9.10  | 8.90  | 9.10  | 0.35  | 0.45  | 0.35  | 0.45  | 8.50 | 48.00 |
| MLF44C       | 0.65 | 8.85  | 9.15  | 8.85  | 9.15  | 0.23  | 0.35  | 0.5   | 0.75  | 8    | 44    |
| MLF36B       | 0    | 8     | 9.15  | 8.85  | 9.15  | 0.28  | 0.4   | 0.5   | 0.75  | 6    | 36    |



|   |  |  |                  |                           |        |                      |
|---|--|--|------------------|---------------------------|--------|----------------------|
|  | <b>SG-MLF-7017 Drawing</b>   |  | Status: Released | Scale: 3:1                | Rev: B |                      |
|   | © 2006 IRONWOOD ELECTRONICS, INC.<br>Tele: (952) 229-8200<br>www.ironwoodelectronics.com |  |                  | Drawing: Nidhi Sen        |        | Date: 06/26/06       |
|   |  |  |                  | File: SG-MLF-7017 Dwg.mcd |        | Modified: 6/4/09, AE |