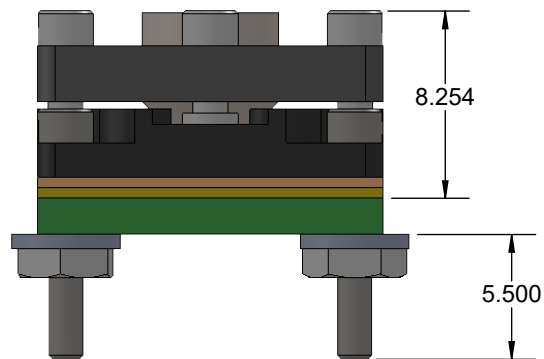
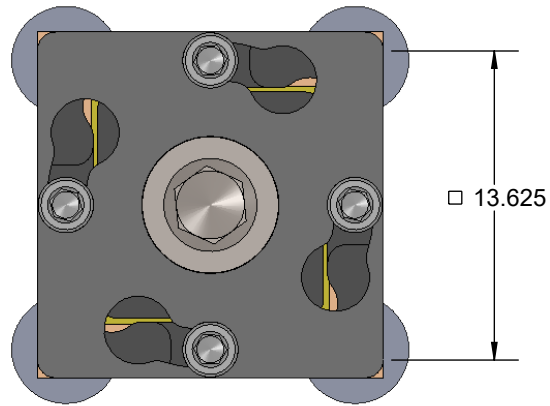


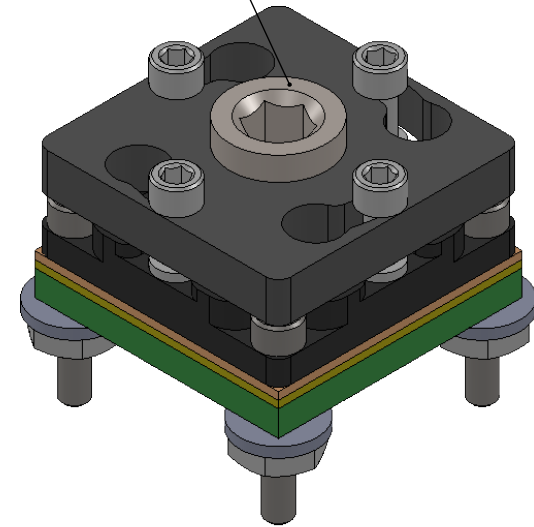
GHz MLF Socket - Direct mount, solderless

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 socket lid




Recommended torque = 1.25 lbf-in.
(14.1 N-cm)



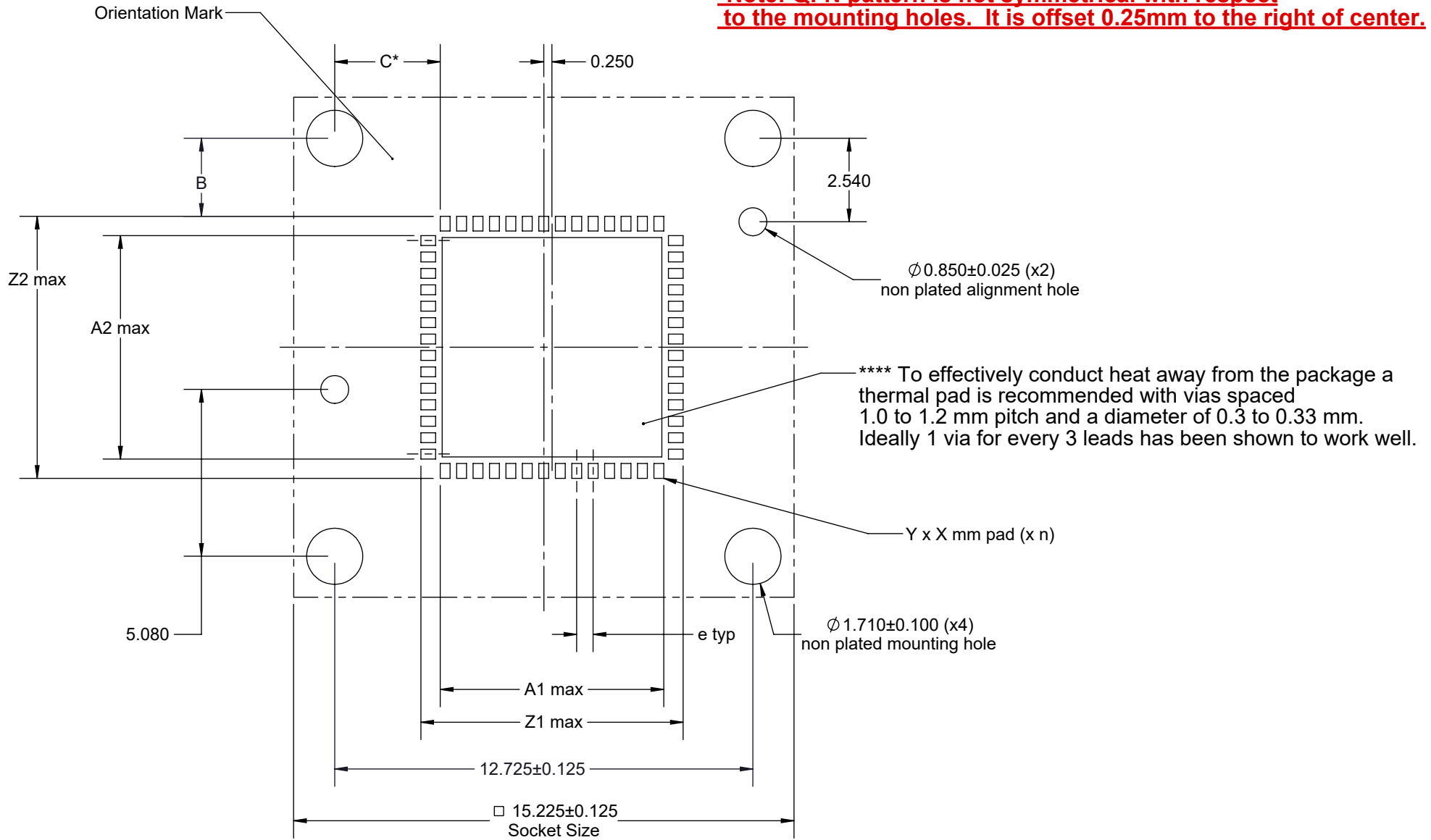
Description: SG-MLF Socket for 8x8mm

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [$\pm 0.001"$]. Pitches (from true position) $\pm 0.0762\text{mm}$ [$\pm 0.003"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change without notice.

 SG-MLF-7007 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 5.52	STATUS: Released ENG: S. Huang FILE: SG-MLF-7007	SHEET: 1 OF 5 DRAWN BY: D. Hauer DATE: 08/19/13	REV. L SCALE: 3:1

***Note: QFN pattern is not symmetrical with respect to the mounting holes. It is offset 0.25mm to the right of center.**



Description: Recommended PCB Layout

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change without notice.


Target PCB Recommendations

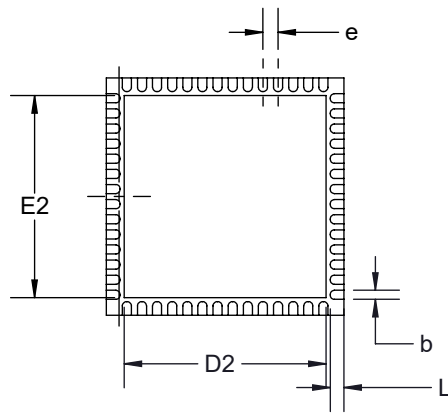
Total thickness: 1.6mm min.

Plating: Gold or Solder finish

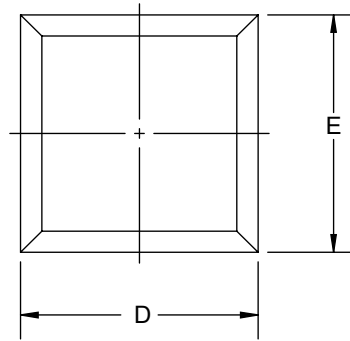
PCB Pad height: Same or higher than solder mask

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

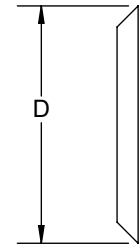
 <p>SG-MLF-7007 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 5.52</p>	STATUS: Released	SHEET: 2 OF 5	REV. L
		ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 6:1
		FILE: SG-MLF-7007	DATE: 08/19/13	



BOTTOM VIEW



TOP VIEW



SIDE VIEW


Package Code	C	B	Z1max	A1max	Z2max	A2 max	e	X	Y	N	Thermal Pad Recommendations
MLF52B	3.47	2.18	8.36	6.28	8.36	6.28	0.5	0.28	0.94	52	6.08 x 6.08
MLF56A	3.22	2.18	8.36	6.78	8.36	6.78	0.5	0.28	0.69	56	6.58 x 6.58
QFN56B	3.56	2.26	8.2	6.1	8.2	6.1	0.45	0.25	0.8	56	6x6
MLF40B	3.5	2.18	8.36	6.22	8.36	6.22	0.65	0.37	0.97	40	6.02 x 6.02
MLF32C	3.6	2.18	8.36	6.02	8.36	6.02	0.8	0.42	1.06	32	5.84 x 5.84
MLF68B	3.29	2.26	8.2	6.65	8.2	6.65	0.4	0.25	0.6	68	6.4 x 6.4
MLF48B	3.72	2.18	8.36	5.78	8.36	5.78	0.5	0.28	0.73	48	6.5 x 6.5
MLF64C	3.49	2.26	8.2	6.25	8.2	6.25	0.4	0.25	0.6	64	6.4 x 6.4

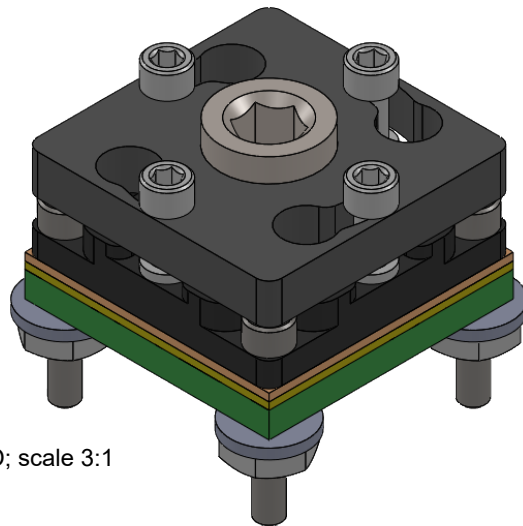
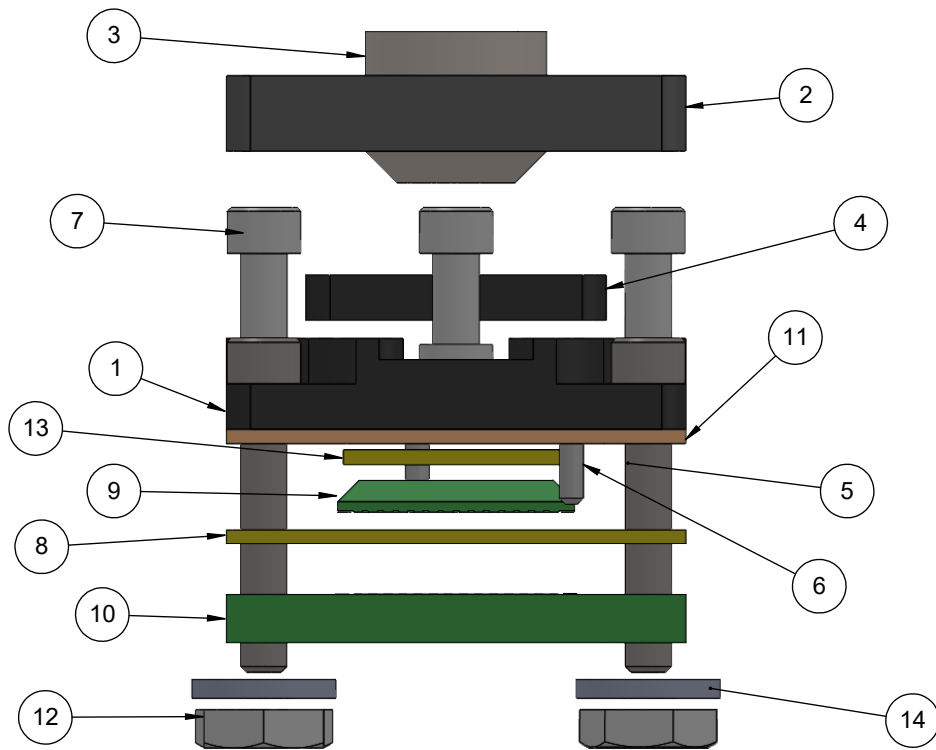
Package Code	e	D min	D max	E min	E max	b min	b max	L min	L max	D2	N
MLF52B	0.5	7.85	8.15	7.85	8.15	0.18	0.3	0.5	0.75	6.18	52
MLF56A	0.5	7.85	8.15	7.85	8.15	0.18	0.3	0.3	0.5	6.68	56
QFN56B	0.45	7.85	8.15	7.85	8.15	0.15	0.25	0.35	0.45	4	56
MLF40B	0.65	7.85	8.15	7.85	8.15	0.23	0.35	0.5	0.75	6.12	40
MLF32C	0.8	7.85	8.15	7.85	8.15	0.28	0.4	0.5	0.75	5.94	32
MLF68B	0.4	7.9	8.1	7.9	8.1	0.15	0.25	0.35	0.45	6.3	68
MLF48B	0.5	7.85	8.15	7.85	8.15	0.18	0.3	0.3	0.5	6.8	48
MLF64C	0.4	7.9	8.1	7.9	8.1	0.15	0.25	0.3	0.5	6.3	64

Description: Compatible Device

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change without notice.

 <p>SG-MLF-7007 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 5.52</p>	STATUS: Released	SHEET: 3 OF 5	REV. L
		ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 4:1
		FILE: SG-MLF-7007	DATE: 08/19/13	




ISO; scale 3:1

ITEM NO.	DESCRIPTION	Material
1	GHz Socket Base 10mm IC 3mm Thk	7075-T6 Aluminum Alloy
2	Socket Lid	7075-T6 Aluminum Alloy
3	Compression Screw M6x1	Stainless Steel (18-8)
4	Compression Plate 9.95 x 1.5mm	7075-T6 Aluminum Alloy
5	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
6	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel
7	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
8	IC Guide	Torlon 4203
9	Test Chip	FR4 High temp
10	Test PCB	FR4 High temp
11	Elast Gde 10x10mm 0.475mm Thk	Ultem
12	Nut, #0-80, SS	Stainless Steel (18-8)
13	0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer	20 Micron dia gold plated brass filaments arranged symetrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm
14	Washer, #0 x .025", Nylon	Nylon 6/6

Description: Socket, Backing Plate Detail

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change without notice.


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Rev	Date	Initials	Description
A	-	-	Original
B	3/24/03	ELS	Update the format of the drawing to math others
C	11/25/03	MAF	Added Thermal pad info
D	11/18/04	HH	Added MLF48B line item to drawing.
E	12/16/06	MAF	Update aluminum info updated address info updated tables
F	5/12/08	UQ	Added QFN68B pattern to the tables.
G	6/4/09	AE	Changed socket lid screw from socket head cap screw to shoulder screw
H	6/22/09	VP	Added QFN64C pattern.
I	11/24/09	SN	1. Changed the socket base thickness to 3mm from 5mm 2. Changed the compression plate thickness to 1.5mm from 2.5mm
J	3/8/12	SH	Added QFN56B pattern to the tables.
K	11/11/14	DH/MR	Update PDF, IC Guide Mat'l chg
L	3/2/16	MR/MAF	changed Description to 8x8 per MAF

Description: Sheet1

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change without notice.

 SG-MLF-7007 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. L
		ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 4:1
		FILE: SG-MLF-7007	DATE: 08/19/13	