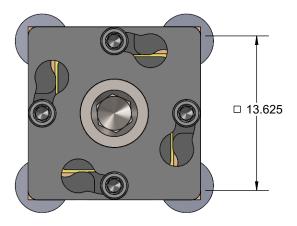
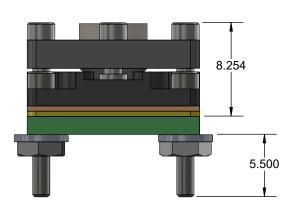
GHz MLF Socket - Direct mount, solderless



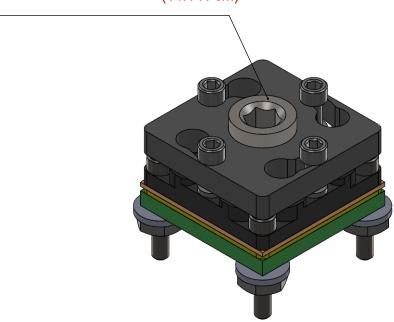


Features

- 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)



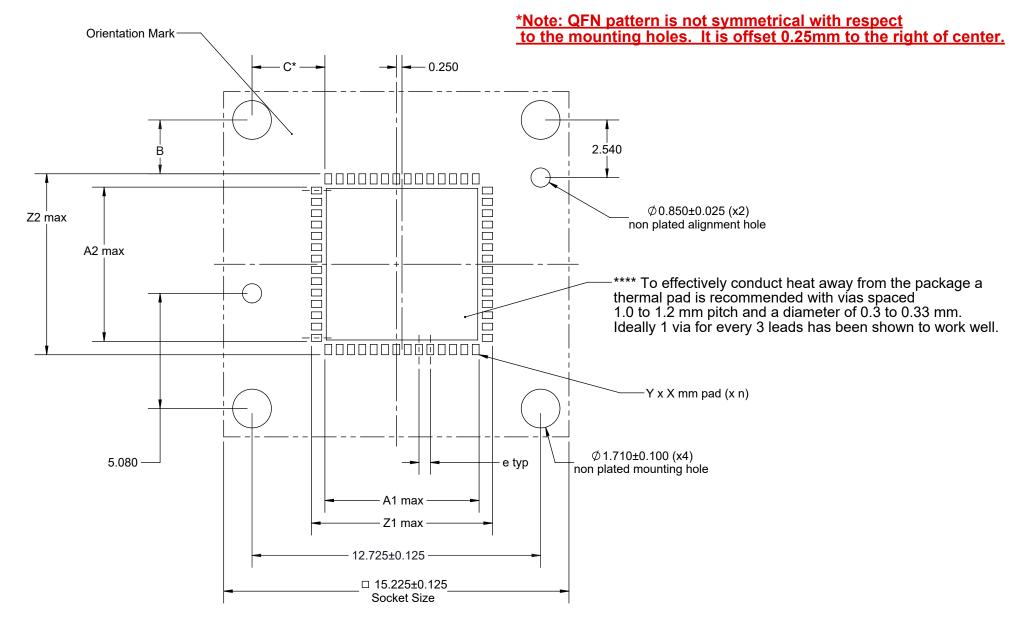
Description: SG-MLF Socket for 8x8mm

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

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

SG-MLF-7007 Drawing	• Material 1471		SHEET: 1 OF 5	REV. N
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 5.62	ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 3:1
www.ironwoodelectronics.com	Weight. 5.52	FILE: SG-MLF-7007	DATE: 08/19/13	





Description: Recommended PCB Layout

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

Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±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

S	G-MLF-7007 Drawing
	Ironwood Electronics, In Tele: (800) 404-0204 www.ironwoodelectronics.c

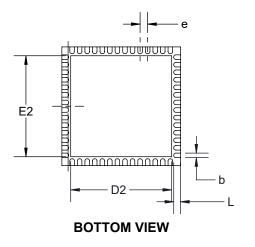
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com

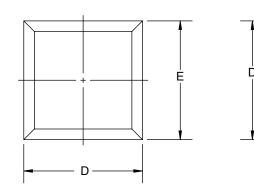
Material: N/A Finish: N/A Weight: 5.62

STATUS: Released	SHEET: 2 OF 5	REV. N
ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 6:1
FILE: SG-MLF-7007	DATE: 08/19/13	

Package Code	С	В	Z1max	A1max	Z2max	A2 max	е	Х	Υ	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	8.0	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

SIDE VIEW





Socket designed to accommodate package nominal size +0.05mm. If the device measures more than +0.05mm, please contact Ironwood Electronics so we can work with you to accommodate your package.

Package Code	e	Dmin	D max	E min	E max	b min	b max	Lmin	L max	D2
MLF52B	0.5	7.9	8.1	7.9	8.1	0.18	0.3	0.5	0.75	6.18
MLF56A	0.5	7.9	8.1	7.9	8.1	0.18	0.3	0.3	0.5	6.68
QFN56B	0.45	7.9	8.1	7.9	8.1	0.15	0.25	0.35	0.45	4
MLF40B	0.65	7.9	8.1	7.9	8.1	0.23	0.35	0.5	0.75	6.12
MLF32C	0.8	7.9	8.1	7.9	8.1	0.28	0.4	0.5	0.75	5.94
MLF68B	0.4	7.9	8.1	7.9	8.1	0.15	0.25	0.35	0.45	6.3
MLF48B	0.5	7.9	8.1	7.9	8.1	0.18	0.3	0.3	0.5	6.8
MLF64C	0.4	7.9	8.1	7.9	8.1	0.15	0.25	0.3	0.5	6.3

TOP VIEW

Description: Compatible Device

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

<u>Tolerances</u>; Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

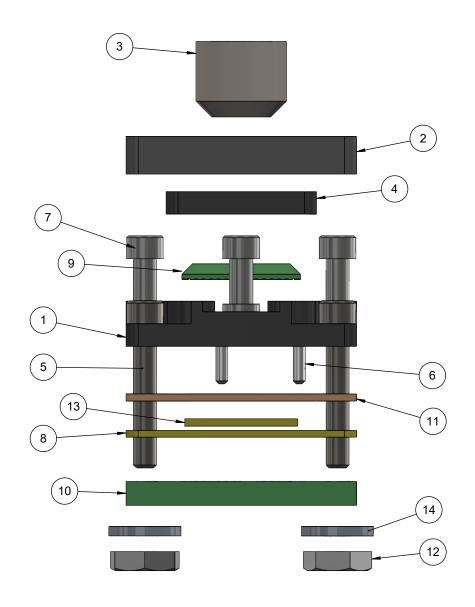
	3G-IVI
	Ir
$\mathbf{A}_{\mathbf{A}}$	14040

SG-MLF-7007 Drawing

Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A Finish: N/A Weight: 5.62

STATUS: Released	SHEET: 3 OF 5	REV. N
ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 4:1
FILE: SG-MLF-7007	DATE: 08/19/13	



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 symettrically 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 ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SG-MLF-7007 Drawi
Ironwood Electronics

/ing Material: N/A Finish: N/A s, Inc. Weight: 5.62 Tele: (800) 404-0204 www.ironwoodelectronics.com

STATUS: Released	SHEET: 4 OF 5	REV. N
ENG: S. Huang	DRAWN BY: D. Hauer	SCALE: 4:1
FILE: SG-MLF-7007	DATE: 08/19/13	

Rev	Rev Date Initials Description		Description
Α	-	-	Original
В	3/24/03	ELS	Update the format of the drawing to math others
С	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
Н	6/22/09	VP	Added QFN64C pattern.
I	11/24/09	SN	Changed the socket base thickness to 3mm from 5mm 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
M	1/24/20	MR/MAF	added note regarding accommodating your package.
N	9/24/20	MR/MAF	corrected exploded vw

Description: Revisions

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

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

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