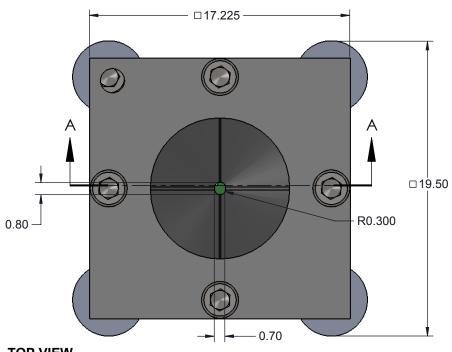
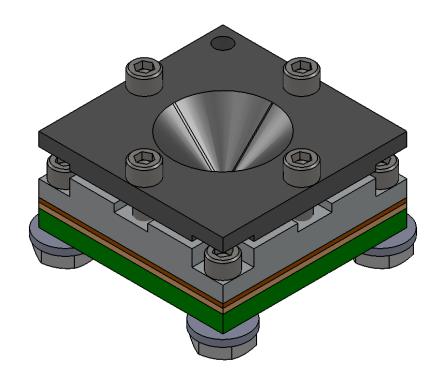
# **GHz QFN SOCKET - direct mount, solderless**



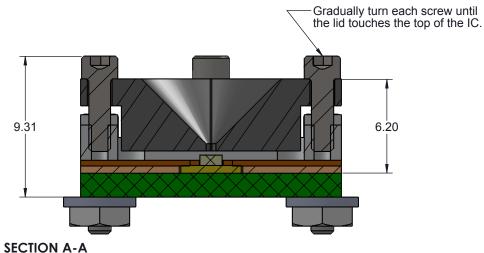
## **Features**

- Directly mounts to target PCB (needs tooling holes) with hardware
  High speed reliable elastomer connection
  Minimum real estate required

- Compression plate distributes forces evenly
  Open top socket lid



#### **TOP VIEW**



## Description: Socket for 1.5x1.6mm 0.5mm pitch QFN6

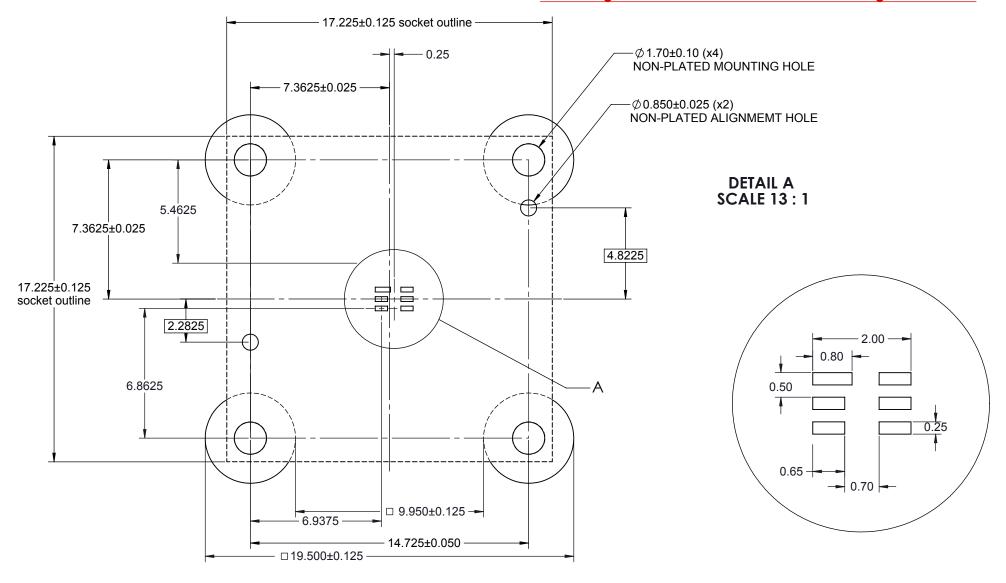
Primary dimension units are millimeters, Secondary dimension units are [inches].

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-7074 Drawing	Material: N/A Finish: N/A Weight: 5.64	STATUS: Released	SHEET: 1 OF 4	REV. A
3	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		DRAWN BY: E. Smolentseva	SCALE: 4:1	
			FILE: SG-MLF-7074 Dwg	DATE: 10/15/2012	

**Target PCB Recommendations** Total thickness: 1.5mm min.

Plating: Gold or Solder finish

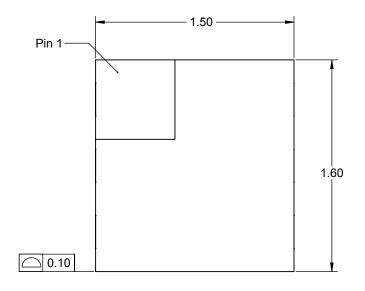


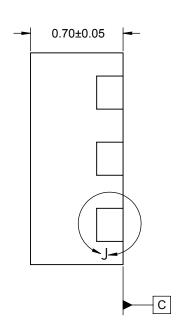
Primary dimension units are millimeters, Secondary dimension units are [inches].

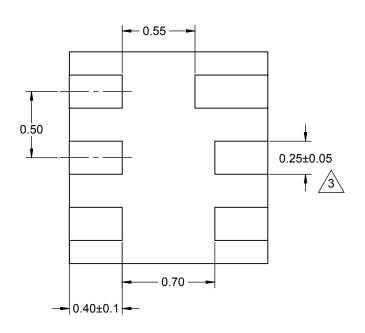
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SG-MLF-7074 Specification STATUS: Released SHEET: 2 OF 4 REV. A Material: N/A Finish: N/A Ironwood Electronics, Inc. DRAWN BY: E. Smolentseva SCALE: 5:1 Tele: (800) 404-0204 Weight: 5.64 FILE: SG-MLF-7074 Dwg www.ironwoodélectronics.com DATE: 10/15/2012

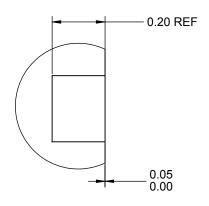
## Description: Socket for 1.5x1.6mm 0.5mm pitch QFN6







- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3. Dimension b applies to the metalized terminal and is measured between 0.15mm and 0.30mm from the terminal tip.
- 4. Unless otherwise specified, tolerance : Decimal ±0.05.



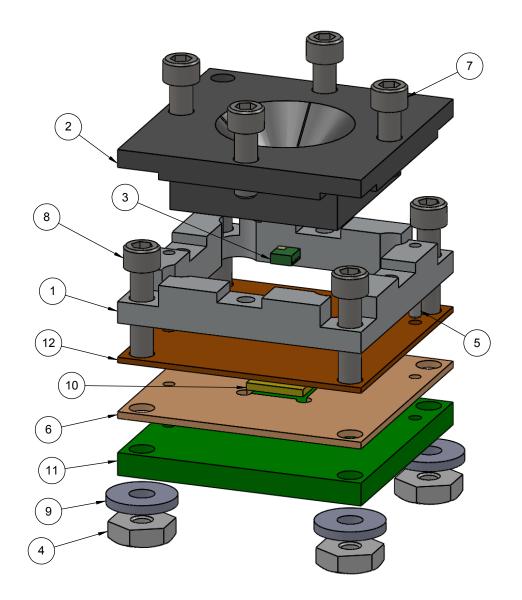
DETAIL J SCALE 70 : 1

### Description: Compatible QFN device

Primary dimension units are millimeters, Secondary dimension units are [inches].

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-7074 Specification	Material: N/A	STATUS: Released	SHEET: 3 OF 4 REV. A
Ironwood Electronics, I Tele: (800) 404-0204		DRAWN BY: E. Smolentseva	SCALE: 35:1
www.ironwoodelectronics	VVCIGITE 5.04	FILE: SG-MLF-7074 Dwg	DATE: 10/15/2012



ITEM NO.DESCRIPTIONMaterial1Socket Base7075-T6 Aluminum Alloy2Open top Socket Lid/Compression plate 1.5x1.3mm IC7075-T6 Aluminum Alloy3ODFN6, 1.5x1.6mm, 0.5mm pitchFR4 Standard4Nut, #0-80, SSStainless Steel (18-8)5Dowel Pin, 1/32" x 3/16", SSChrome Stainless Steel6Elastomer GuideUltem 10007#0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDEAlloy Steel8#0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDEAlloy Steel9Washer, #0 x .025", NylonNylon 6/6100.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm11ODFN packageFR4 High temp12Target PCBKapton Polyimide			
2 Open top Socket Lid/Compression plate 1.5x1.3mm IC  3 ODFN6, 1.5x1.6mm, 0.5mm pitch  4 Nut, #0-80, SS 5 Dowel Pin, 1/32" x 3/16", SS 6 Elastomer Guide 7 #0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE 8 #0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE 9 Washer, #0 x .025", Nylon 10 ODFN package 10 ODFN package 7 OT5-T6 Aluminum Alloy 7 FR4 Standard FR4 High temp	ITEM NO.	DESCRIPTION	Material
Dilate 1.5x1.3mm IC   Total Administration	1	Socket Base	7075-T6 Aluminum Alloy
4 Nut, #0-80, SS 5 Dowel Pin, 1/32" x 3/16", SS 6 Elastomer Guide 7 #0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE 8 #0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE 9 Washer, #0 x .025", Nylon 10 0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer 11 ODFN package Stainless Steel (18-8) Chrome Stainless Steel Ultem 1000 Alloy Steel Alloy Steel 20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm	2		7075-T6 Aluminum Alloy
5 Dowel Pin, 1/32" x 3/16", SS Chrome Stainless Steel 6 Elastomer Guide Ultem 1000 7 #0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE 8 #0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE 9 Washer, #0 x .025", Nylon Nylon 6/6  10 0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer  11 ODFN package FR4 High temp	3	ODFN6, 1.5x1.6mm, 0.5mm pitch	FR4 Standard
6 Elastomer Guide Ultem 1000  7 #0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE  8 #0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE  9 Washer, #0 x .025", Nylon  10 0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer  11 ODFN package  Ultem 1000  Alloy Steel  Alloy Steel  20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm	4	Nut, #0-80, SS	Stainless Steel (18-8)
7 #0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE  8 #0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE  9 Washer, #0 x .025", Nylon  10 0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer  11 ODFN package  Alloy Steel  Alloy Steel  Alloy Steel  Alloy Steel  20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm	5	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
7 SCREW, ALLOY STL, BLK OXIDE  8 #0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE  9 Washer, #0 x .025", Nylon  10 0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer  11 ODFN package  Alloy Steel  Alloy Steel  Alloy Steel  Alloy Steel  20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm	6	Elastomer Guide	Ultem 1000
SCREW, ALLOY STL, BLK OXIDE  9 Washer, #0 x .025", Nylon  Nylon 6/6  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  11 ODFN package  FR4 High temp	7		Alloy Steel
10 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  11 ODFN package FR4 High temp	8	#0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
10 50mm sqr, Z-axis conductive angled elastomer filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm  11 ODFN package FR4 High temp	9	Washer, #0 x .025", Nylon	Nylon 6/6
The second second	10	50mm sqr, Z-axis conductive angled	filaments arranged symettrically in a silicon rubber (63.5 degree angle),
12 Target PCB Kapton Polyimide	11	ODFN package	FR4 High temp
	12	Target PCB	Kapton Polyimide

Rev	Date	Initials	Description
Α	8/8/12	ELS	Original

## Description: Exploded View

Primary dimension units are millimeters, Secondary dimension units are [inches].

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-7074 Specification			
•	Ironwood Electronics, Inc Tele: (800) 404-0204 www.ironwoodelectronics.c		

wood Electronics, Inc. ele: (800) 404-0204 onwoodelectronics.com

Material: N/A Finish: N/A Weight: 5.64

STATUS: Released	SHEET: 4 OF 4	REV. A	
DRAWN BY: E. Smolentseva	SCALE: 4:1		
FILE: SG-MLF-7074 Dwg	DATE: 10/15/2012		