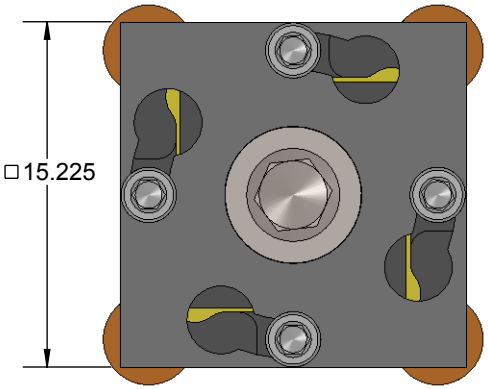
SM QFN SOCKET - direct mount, solderless

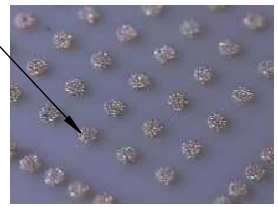
Features

- Directly mounts to target PCB (needs tooling holes) with hardware.
- Wide temperature range (-55C to +150C).
- Current capability is 4A per pin at 14C temperature rise.
- Over 40GHz bandwidth @-1dB for edge pins
- Low and stable contact resistance for reliable production yield.
- Self inductance under 0.21nH.
- Easily removable swivel socket lid

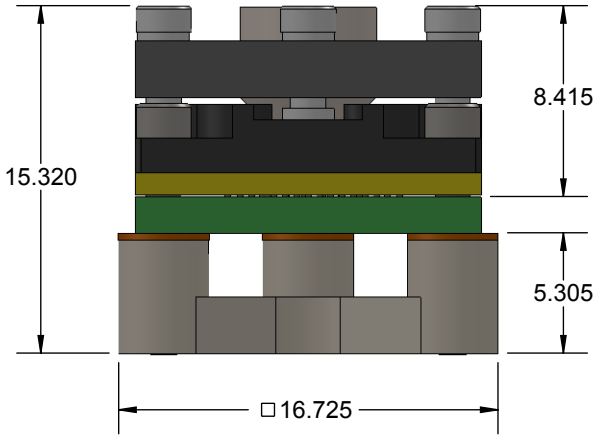


TOP VIEW

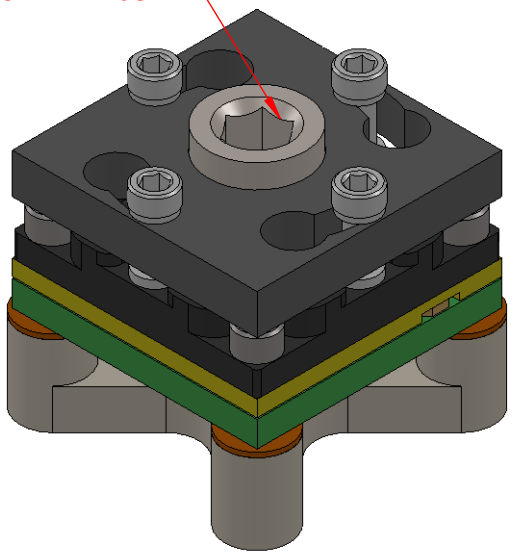
Silver ball matrix elastomer



Recommended torque = 1.5 - 2 in-lbs



SIDE VIEW



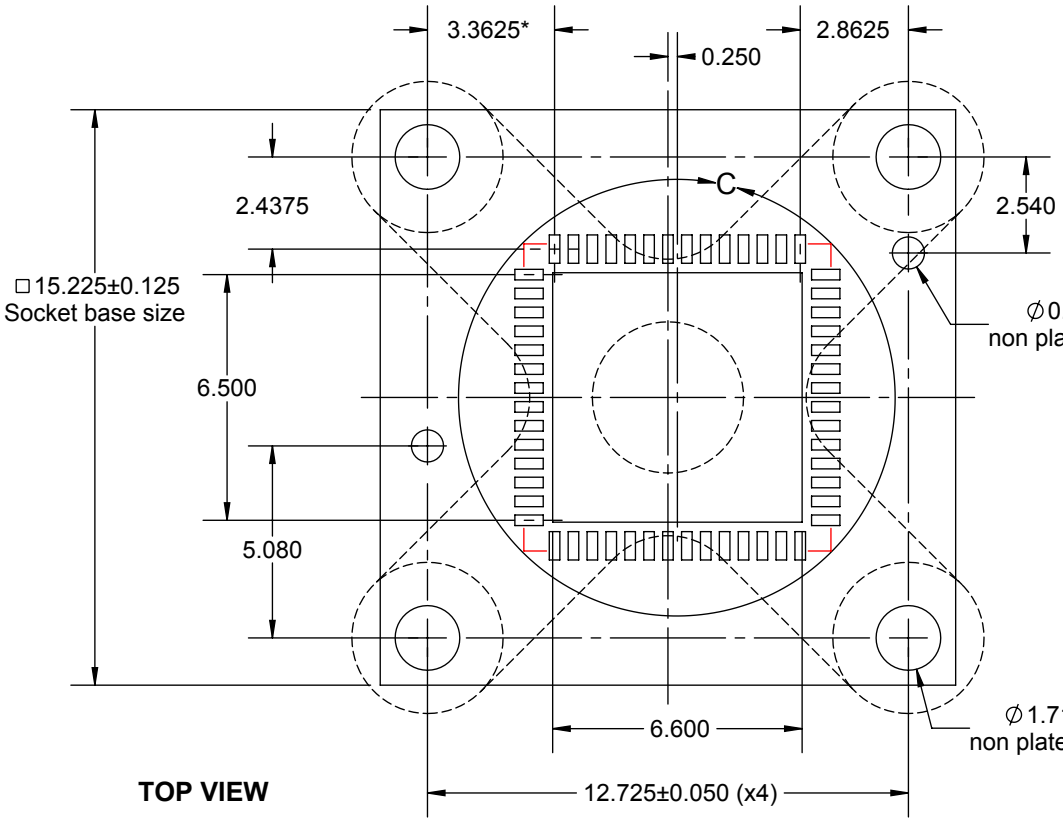
Description: SM-QFN Socket for 8x8mm 0.5mm pitch QFN56

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

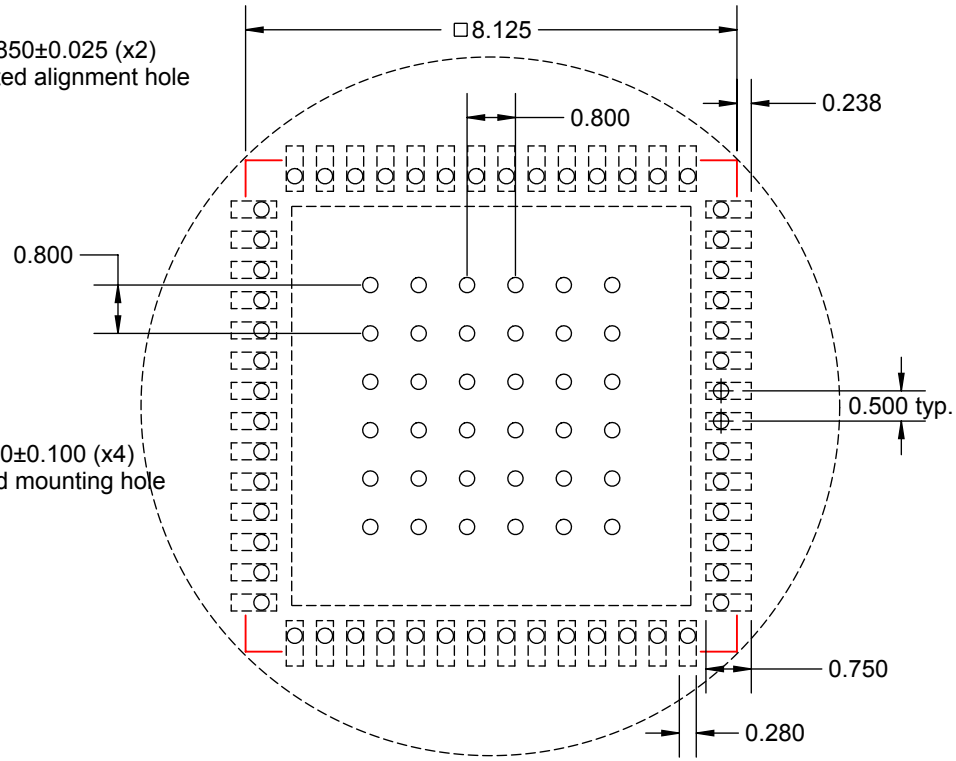
Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SM-QFN-9017 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 6.39	STATUS: Released	SHEET: 1 OF 4	REV. B
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: SM-QFN-9017 Dwg	DATE: 11/04/2013	

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



TOP VIEW



Pin location detail

DETAIL C
SCALE 8 : 1

Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

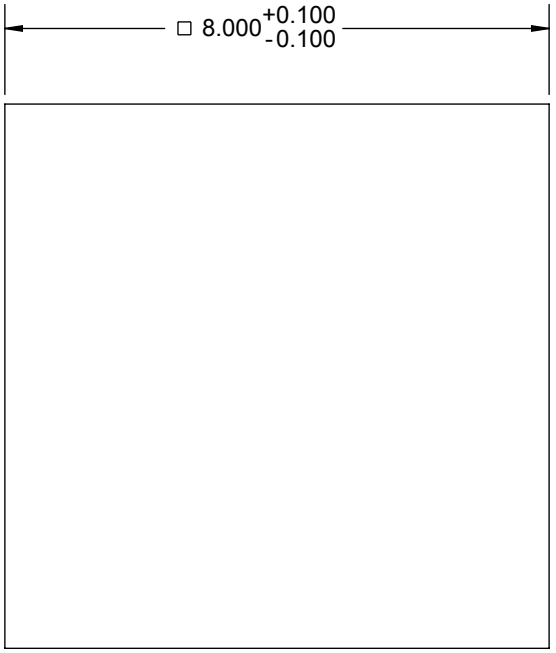
Description: Recommended PCB Layout

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

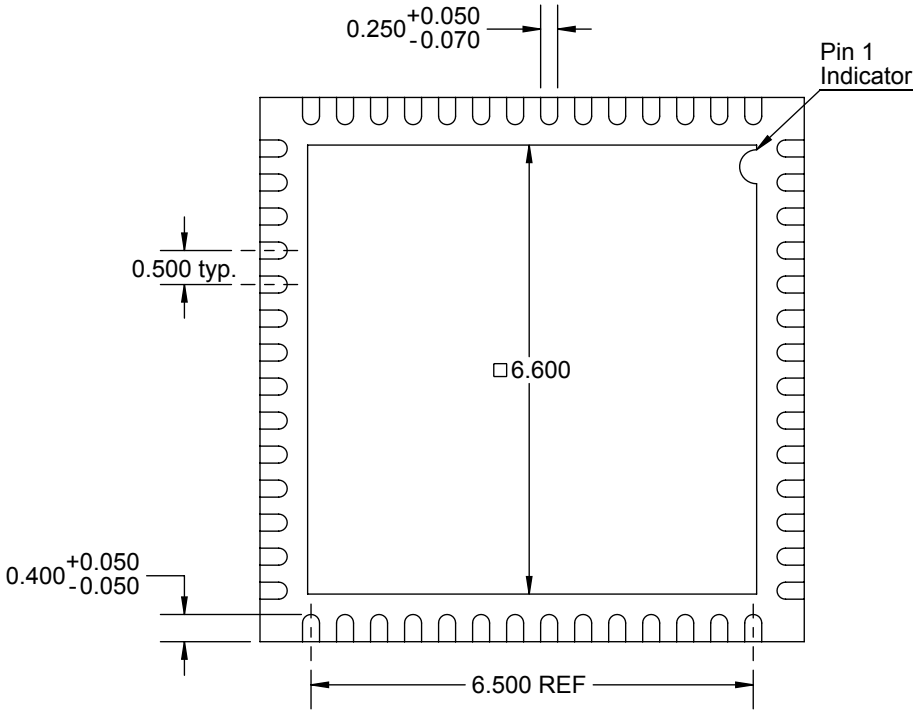
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SM-QFN-9017 Drawing	Material: N/A Finish: N/A Weight: 6.39	STATUS: Released	SHEET: 2 OF 4	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 5:1
		FILE: SM-QFN-9017 Dwg	DATE: 11/04/2013	

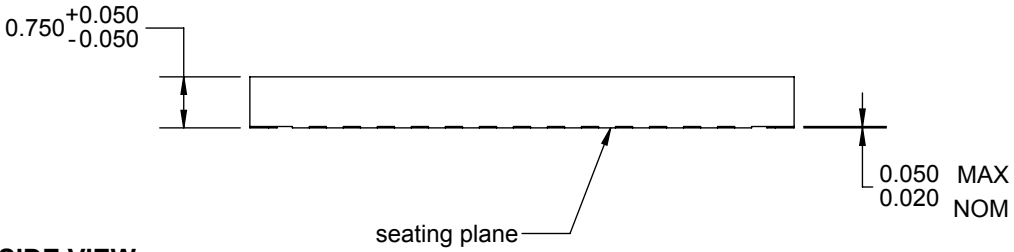
Ironwood Package Code: QFN56A



TOP VIEW



BOTTOM VIEW



SIDE VIEW

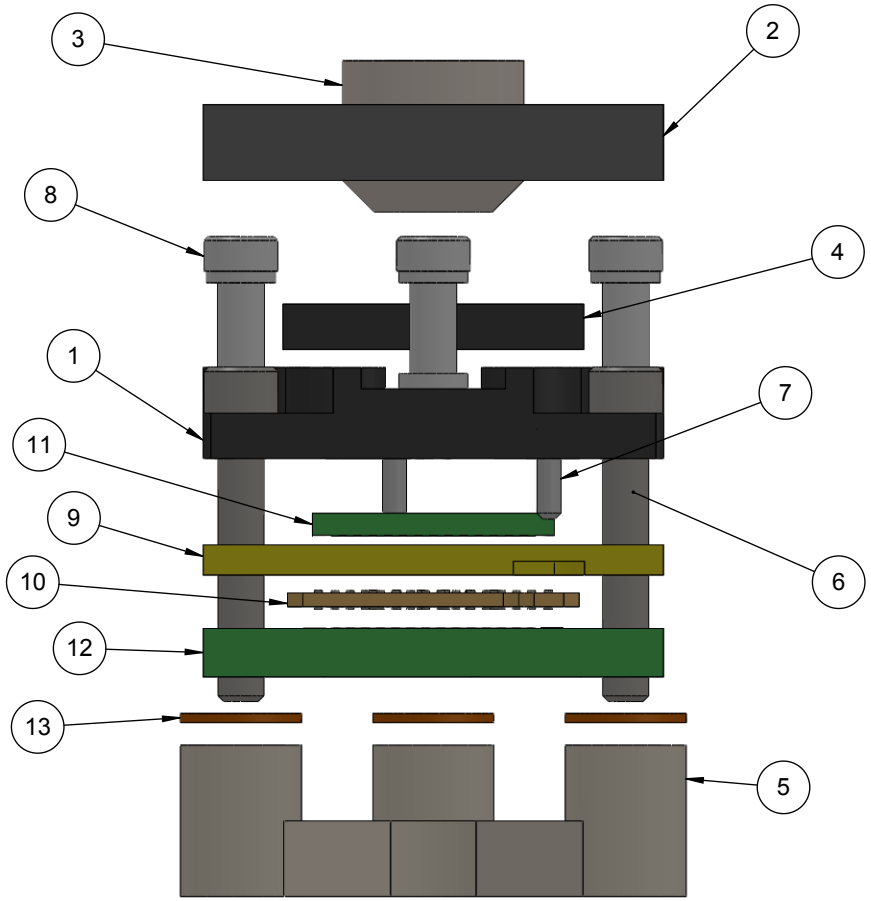
coplanarity 0.8

Description: Compatible Device

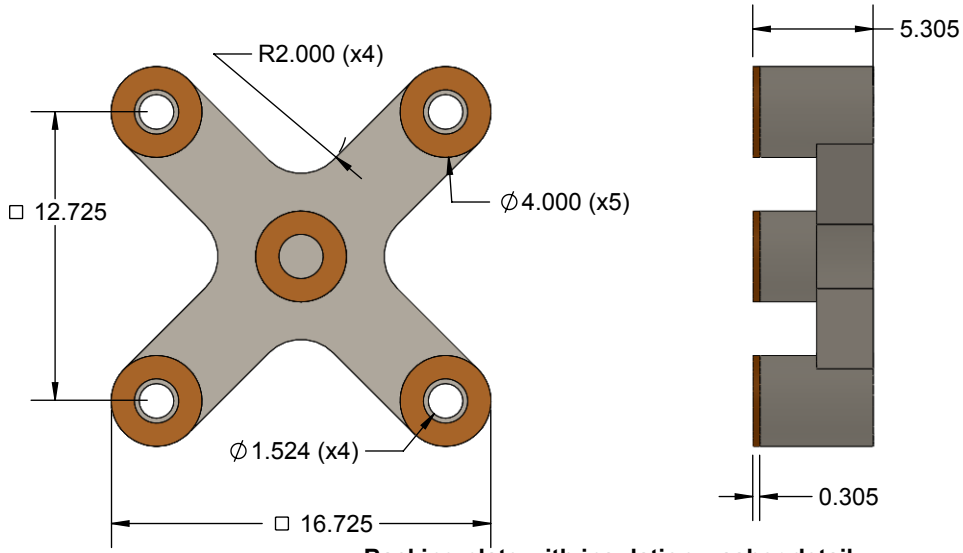
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

SM-QFN-9017 Drawing	Material: N/A Finish: N/A Weight: 6.39	STATUS: Released	SHEET: 3 OF 4	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 9:1
		FILE: SM-QFN-9017 Dwg	DATE: 11/04/2013	



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	10x10mm 5 post backing plate	7075-T6 Aluminum Alloy
6	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
7	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel
8	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)
9	SM IC Guide 8x8mm IC	Torlon 4203
10	SM Interposer QFN56 8x8mm 0.5mm pitch	SM elastomer
11	Test Chip 8x8mm 0.5mm pitch QFN56	FR4 High temp
12	Test PCB QFN56 0.5mm pitch 8x8mm	FR4 High temp
13	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex



Backing plate with insulation washer detail

Rev	Date	Initials	Description
A	11/04/13	MR	Original
B	05/13/14	DH	Changed IC Guide material to Torlon

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.

SM-QFN-9017 Drawing	Material: N/A Finish: N/A Weight: 6.39	STATUS: Released	SHEET: 4 OF 4	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: SM-QFN-9017 Dwg	DATE: 11/04/2013	