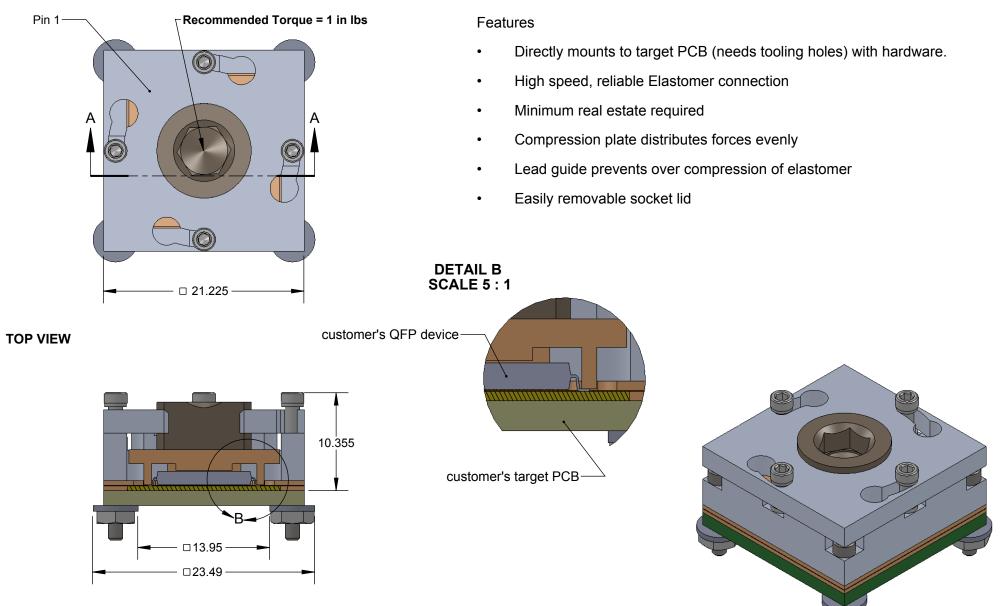
GHz QFP Socket - Direct mount, solderless



SECTION A-A Description: Socket specification

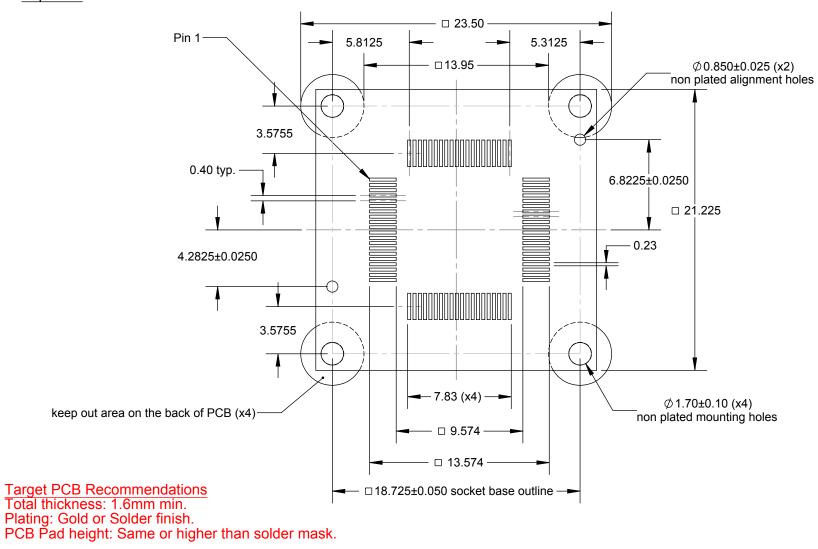
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

 $\frac{Tolerances:}{tolerances:}$ 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.

-	Finish: N/A Weight: 9.24	STATUS: Released	SHEET: 1 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 5:2
www.ironwoodelectronics.com		FILE: SG-QFE-7012	DATE: 4/25/13	

*Note: QFP pattern is not symmetrical with respect to the mounting holes. It is shifted to the right by 0.25mm

Recommended PCB Layout Top View

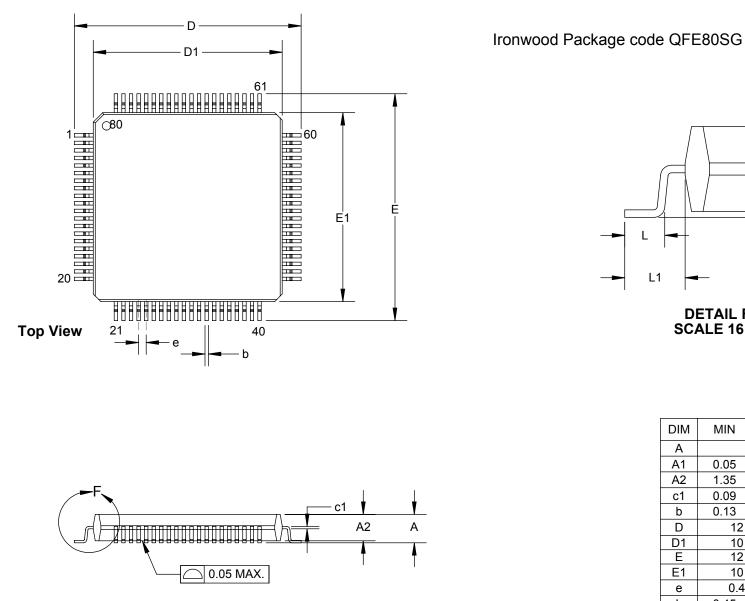


NOTE: Steel backing plate may be required based on end user's application.

Description: Rcommended PCB Layout

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.

SG-QFE-7012 Drawing Material: N/A		STATUS: Released	SHEET: 2 OF 4	REV. A	
R w	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Weight: 9.24	ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 3.5:1
			FILE: SG-QFE-7012	DATE: 4/25/13	



Side View

Description: Compatible QFP 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.

	SG-QFE-7012 Drawing	Finish: N/A Weight: 9.24	STATUS: Released	SHEET: 3 OF 4	REV. A
8	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 5:1
			FILE: SG-QFE-7012	DATE: 4/25/13	

- A1

L

L1

DIM

А A1

A2

c1

b

D

D1

Е

E1

е L

L1

DETAIL F SCALE 16:1

MIN

0.05

1.35

0.09

0.13

0.45

12 BSC

10 BSC

12 BSC

10 BSC 0.4 BSC

1 REF

MAX 1.6

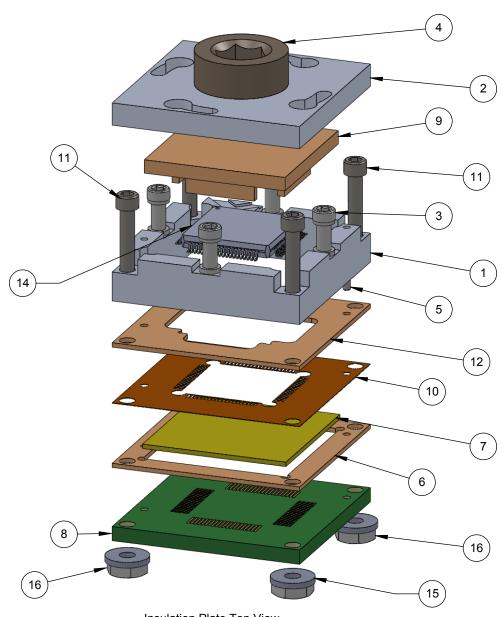
0.15

1.45

0.16

0.23

0.75



ITEM NO.	DESCRIPTION	Material	
1	Socket Base	7075-T6 Aluminum Alloy	
2	Socket Lid	7075-T6 Aluminum Alloy	
3	#0-80 Shoulder Screw, 0.090" thread length	Stainless Steel (303)	
4	Compression Screw M10	7075-T6 Alumium Alloy	
5	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel	
6	Elastomer Guide	Ultem 1000	
7	0.5mm thick, 0.05x 0.05mm pitch, 50mm sqr, Z-axis conductive angled elastomer	20 Micron dia gold plated brass filaments arranged symettricall in a silicon rubber (63.5 degree angle), Thickness: 0.5mm	
8	Customer's target PCB for LQFP80	FR4 Standard	
9	Compression Plate QFE 12x12mm T-T Ultem	Ultem 1000	
10	Lead Guide for 12x12mm tip to tip, 10x10mm body, 0.4mm pitch LQFP80	Kapton Polyimide	
11	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel	
12	IC Guide QFE 12x12mm T-T	Ultem 1000	
15	Washer, #0 x .025", Nylon	Nylon 6/6	
14	LQFP80 12mm tip to tip, 10mm body, 0.4mm pitch	Material <not specified=""></not>	
16	Nut, #0-80, SS	Stainless Steel (18-8)	

Insulation Plate Top View

Description: Socket Assembly

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

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

S	SG-QFE-7012 Drawing Material: N/A		STATUS: Released	SHEET: 4 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 9.24	ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 2.5:1	
			FILE: SG-QFE-7012	DATE: 4/25/13	