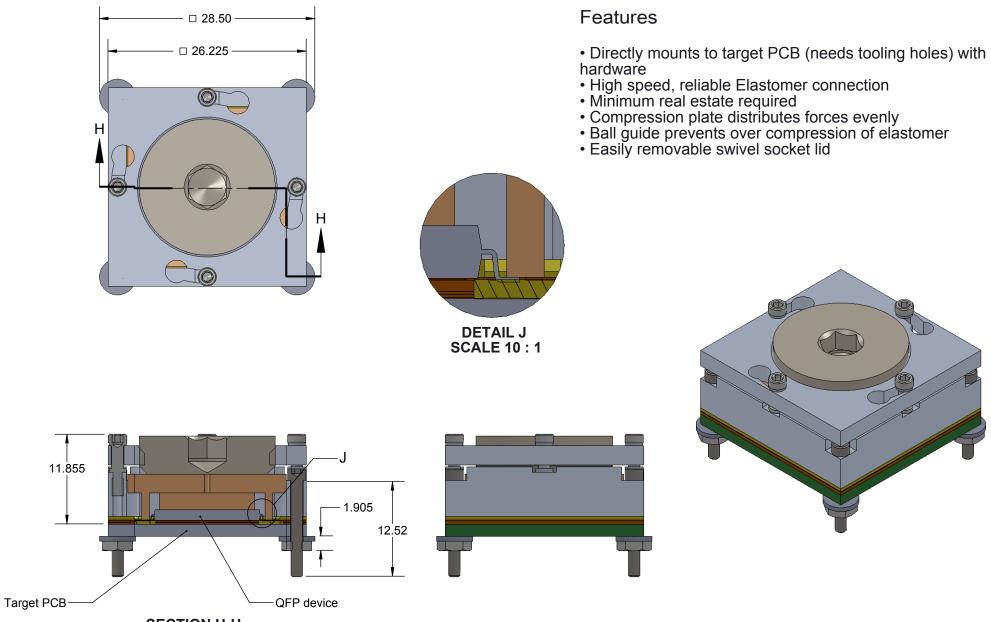
# GHz QFP Socket - Direct mount, solderless



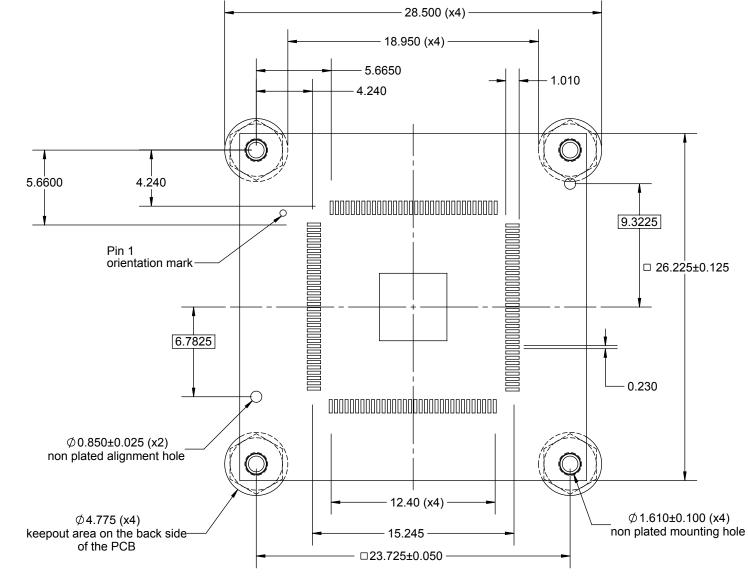
### **SECTION H-H**

#### Description: Socket for QFP128, 16x16 tip to tip dimension 14x14mm body 0.4mm pitch

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-QFE-7015 Drawing	Material: N/A	STATUS: Released	SHEET: 1 OF 4	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 15.37	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 2:1
		FILE: SG-QFE-7015 Dwg	DATE: 10/07/2013	



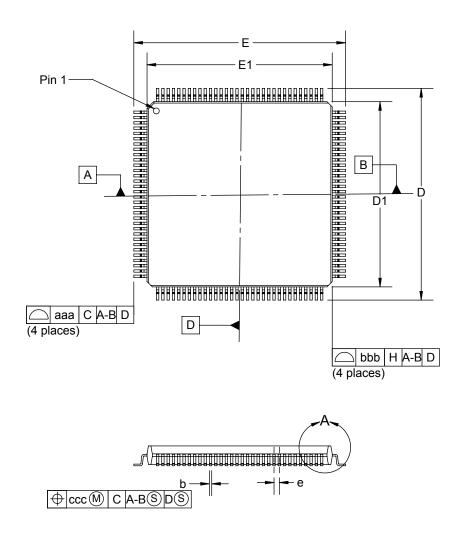
<u>Target PCB Recommendations</u> Total thickness: 1.6mm min. Plating: Gold or Solder finish

Plating: Gold or Solder finish PCB Pad height: Same or higher than solder mask

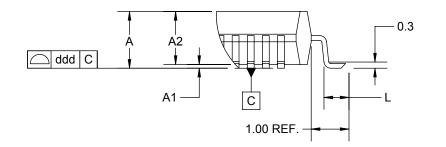
#### Description: Recommended PCB Layout

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances</u>: Hole diameters  $\pm 0.03$ mm [ $\pm 0.001$ "], Pitches (from true position)  $\pm 0.025$ mm [ $\pm 0.001$ "], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.13$ mm [ $\pm 0.005$ "] unless stated otherwise. Materials and specifications are subject to change without notice.

S	G-QFE-7015 Drawing	Material: N/A	STATUS: Released	SHEET: 2 OF 4	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Weight: 15.37	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3.5:1	
		FILE: SG-QFE-7015 Dwg	DATE: 10/07/2013		



DETAIL A SCALE 10 : 1



DIM	MIN	NOM	MAX		
Α			1.6*		
A1	0.05		0.15		
A2	1.35	1.40	1.45		
D		16.00 BSC			
D1		14.00 BSC			
E		16.00 BSC			
E1		14.00 BSC			
L	0.45	0.45 0.60 0.75			
е		0.40 BSC			
b	0.13	0.18	0.23		
С	0.09		0.20		
aaa		0.20			
bbb		0.20			
CCC	0.07				
ddd	0.08				

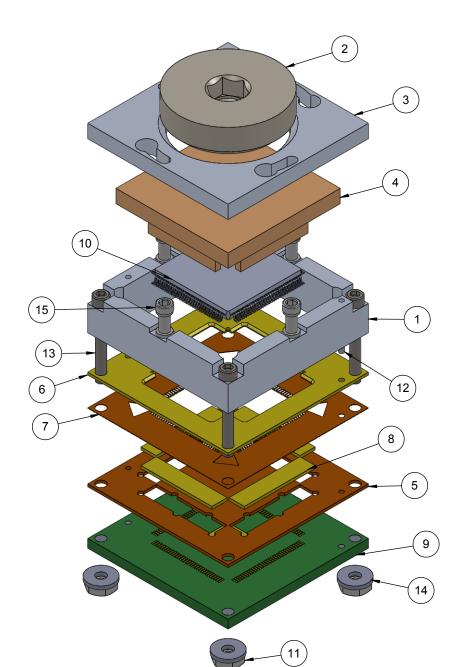
## \*Note: this socket can accomodate devices up to 3.5mm tall.

**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.

S	G-QFE-7015 Drawing	Material: N/A	STATUS: Released	SHEET: 3 OF 4	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 15.37	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3.5:1	
			FILE: SG-QFE-7015 Dwg	DATE: 10/07/2013	



ITEM NO.	Description	Material
1	Socket Base SBT BGA	7075-T6 Aluminum Alloy
2	Compression Screw, M18	7075-T6 Aluminum Alloy
3	Socket Lid, 26.225 X 26.225	7075-T6 Aluminum Alloy
4	Compression Plate	Ultem 1000
5	QFE Elastomer Guide 16mm IC	Kapton Polyimide
6	IC Guide	Torlon 4203
7	Lead Guide	
8	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
9	Test PCB, 16x16mm, QFP128, 0.4mm pitch	Material <not specified=""></not>
10	QFP128, 0.4mm pitch, 16x16 tip to tip, 14mm body	Material <not specified=""></not>
11	Nut, #0-80, SS	Stainless Steel (18-8)
12	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
13	#0-80 x 0.5, SH Cap Screw	Alloy Steel
14	Washer, #0 x .025", Nylon	Nylon 6/6
15	#0-80 Shoulder Screw, 0.090" thread length	Stainless Steel (303)

#### **Description:** Assembly

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

	В	03/27/14	DH	Changed IC guide material to Torlon
STATUS: Released		SHEET:	4 OF 4	REV. B
ENG: E. Smolentseva		DRAWN	BY: M. Ras	ke SCALE: 3.5:1
FILE: SG-QFE-7015 Dwg		DATE: 1	10/07/2013	

Initials

MR

Description

Original

Rev

А

Date

10/07/13



SG-QFE-7015 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com

Material: N/A
Finish: N/A Weight: 15.37