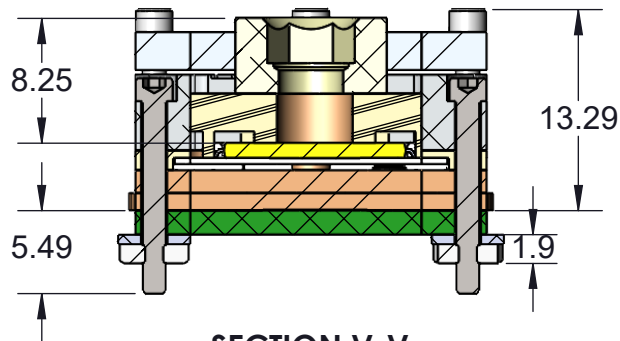
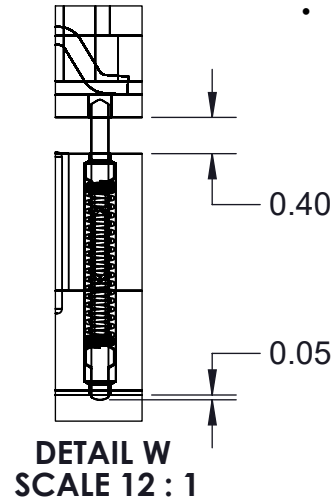
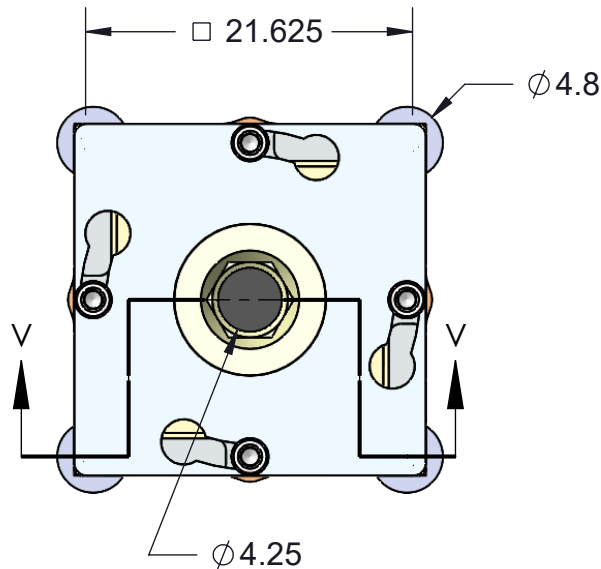


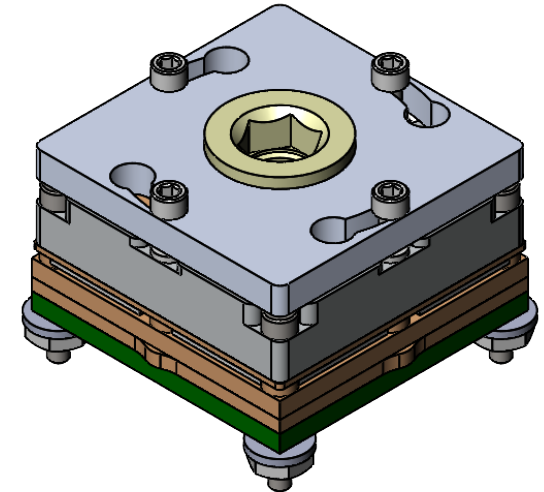
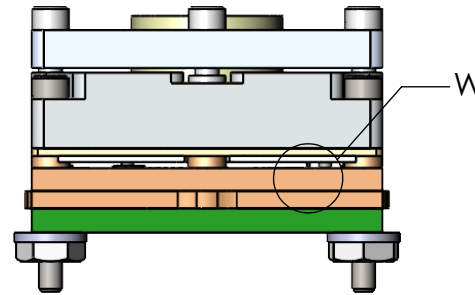
# SBT-QFP DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

## Features

- Wide temperature range (-55C to +180C)
- High current capability (up to 4A)
- Excellent signal integrity at high frequencies
- Low and stable contact resistance for reliable production yield
- Highly compliant to accommodate wide co-planarity variations
- Automated probe manufacturing enables low cost and short lead time




SECTION V-V



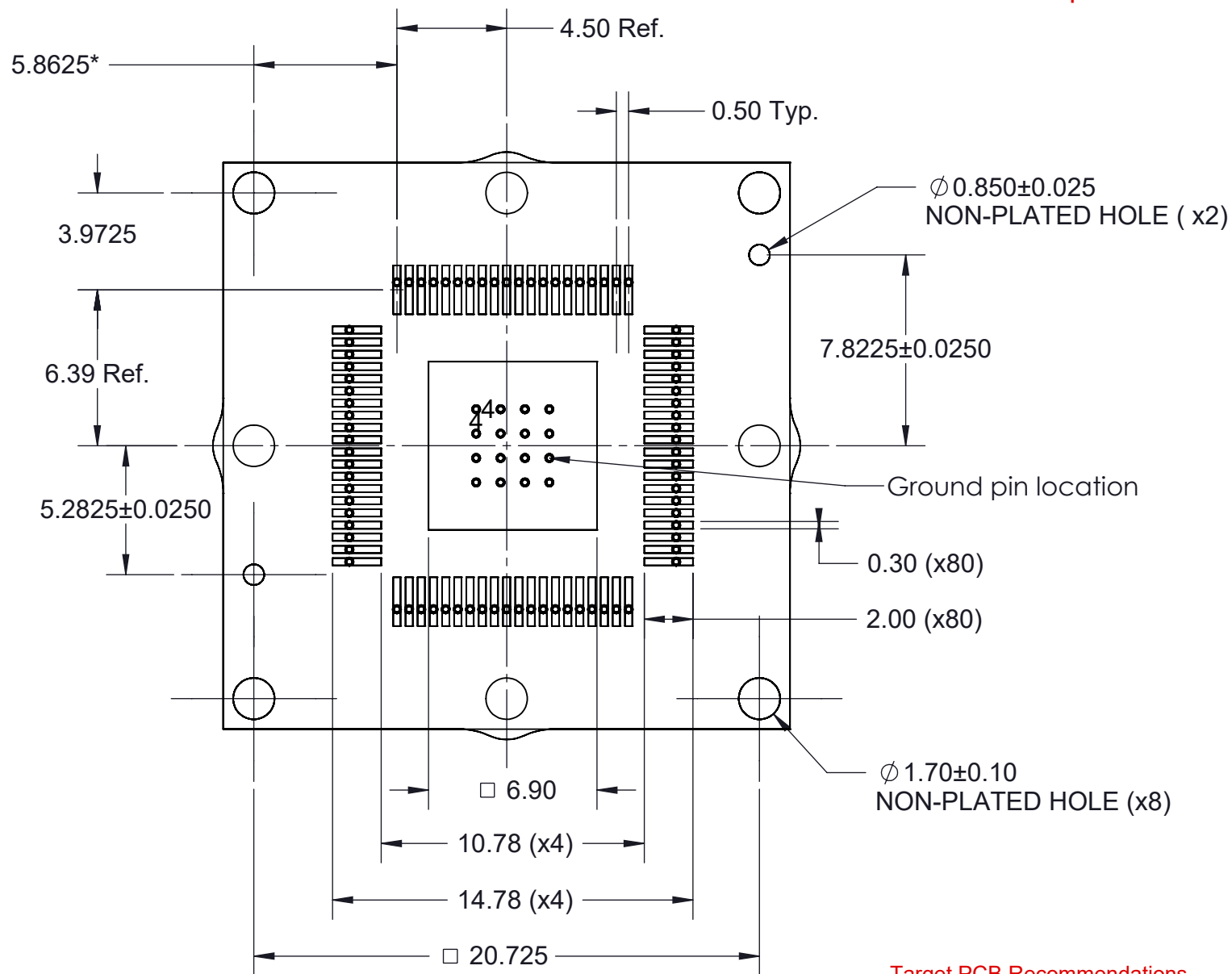
## Description: Assembly

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

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

<b>SBT-QFE-3000 Drawing</b>	Material: Material <not specified>	STATUS: Released	SHEET: 1 OF 4	REV. C
 <p>Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	Finish: Weight: 13.31	ENG: V. Panavala FILE: SBT-QFE-3000	DRAWN BY: D. Hauer DATE: 2/25/13	SCALE: 2:1

**\*Note: QFP pattern is not symmetrical with respect to the mounting holes.**




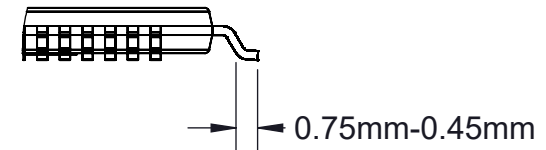
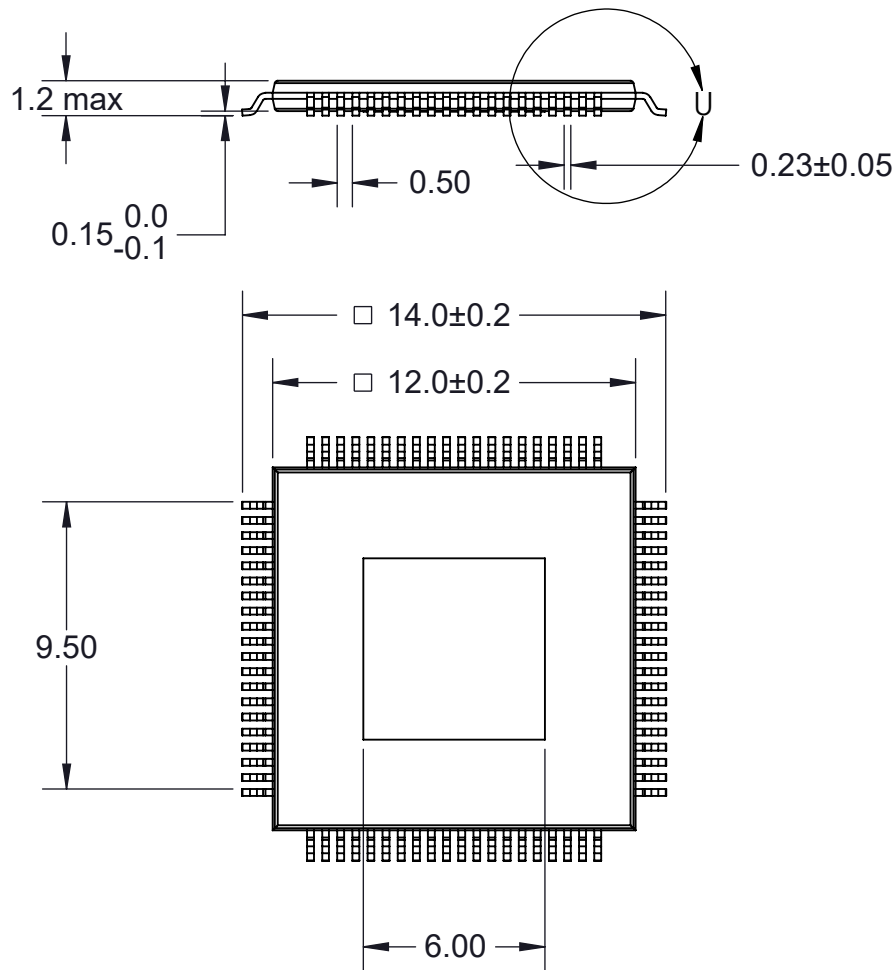
**Target PCB Recommendations**  
 Total thickness: 1.6mm min.  
 Plating: Gold or Solder finish  
 PCB Pad height: Same or higher than solder mask

## Description: Recommended PCB Layout

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

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

<b>SBT-QFE-3000 Drawing</b>	Material: Material <not specified>	STATUS: Released	SHEET: 2 OF 4	REV. C
 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: Weight: 13.31	ENG: V. Panavala FILE: SBT-QFE-3000	DRAWN BY: D. Hauer DATE: 2/25/13	SCALE: 4:1



**DETAIL U**  
**SCALE 6 : 1**


**Ironwood Package Code: QFE80SC**

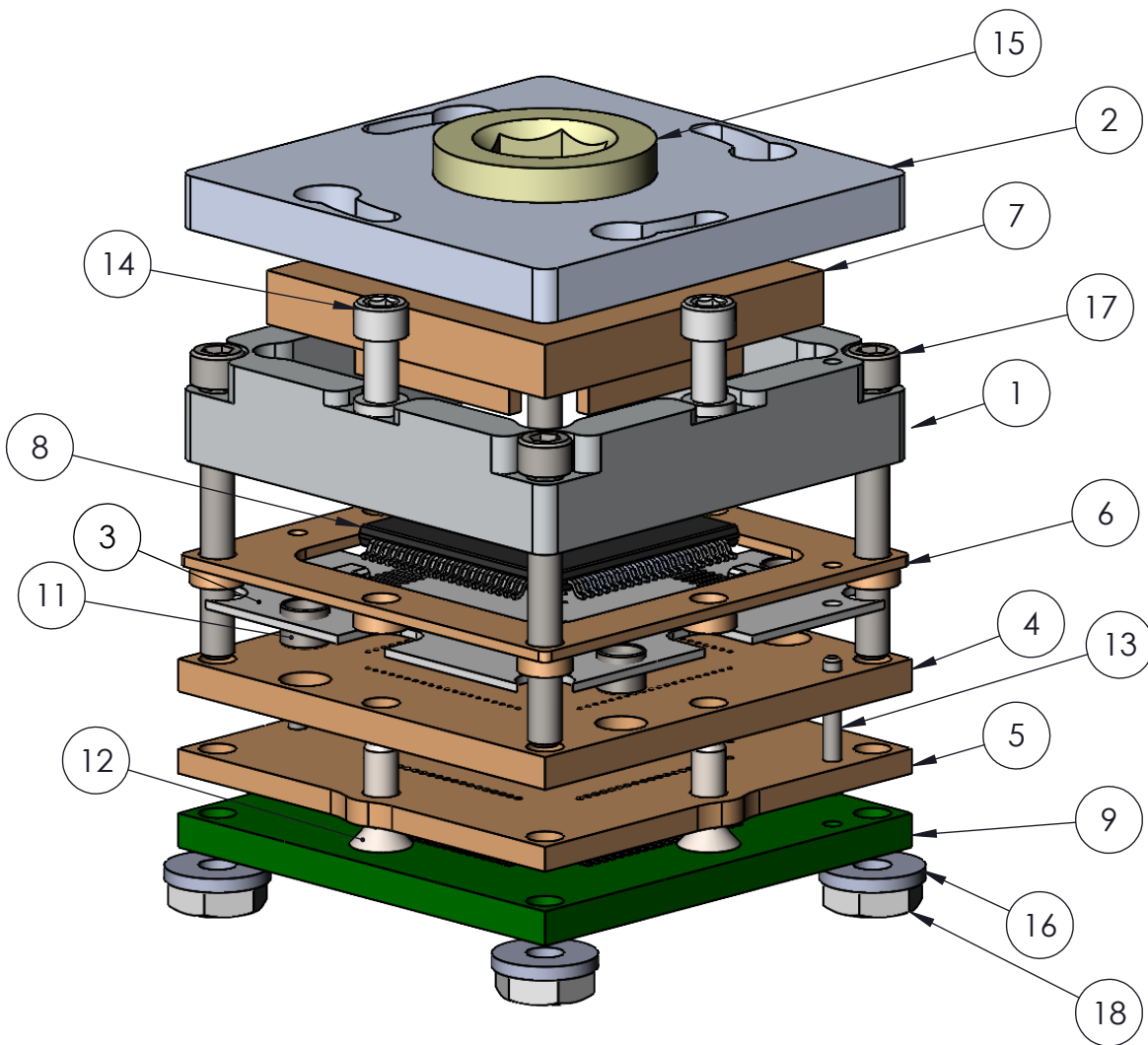
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.

### Description: Compatible QFE

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

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

<b>SBT-QFE-3000 Drawing</b>		STATUS: Released		SHEET: 3 OF 4		REV. C	
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified>		ENG: V. Panavala		DRAWN BY: D. Hauer	
		Finish: Weight: 13.31		FILE: SBT-QFE-3000		DATE: 2/25/13	




ITEM NO.	DESCRIPTION	Material
1	Socket Base 18mm	7075-T6 (SN)
2	Socket Lid	7075-T6 Aluminum Alloy
3	floating guide QFE80SC 0.5mm pitch	PEEK Ceramic filled
4	Middle Guide, QFE80SC 0.5mm pitch	Semitron MDS 100
5	Bottom Guide, QFE80SC 0.5mm pitch	Semitron MDS 100
6	IC Guide, QFE80SC 16x16mm	Torlon 4203
7	Compression Plate QFE80SC 0.5mm pitch	PEEK Ceramic filled
8	QFE80SC 0.5mm pitch IC	
9	PCB QFE80SC 0.5mm pitch	High Temp FR4
10	SBT Pin, 0.4mm pitch	N/A
11	Floating Guide Spring	Alloy Steel (SS)
12	Screw, #0-80 X .188", Flat, SS	Stainless Steel (18-8)
13	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
14	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
15	Compression Screw M10 with 4.25mm dia hole	7075-T6 (SN)
16	Washer, #0 x .025", Nylon	Nylon 6/6
17	#0-80 x 0.5, SH Cap Screw	Alloy Steel
18	Nut, #0-80, SS	Stainless Steel (18-8)

## Description: Socket Spec

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

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

<b>SBT-QFE-3000 Drawing</b>		Material: Material <not specified>	STATUS: Released	SHEET: 4 OF 4	REV. C
 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: Weight: 13.31		ENG: V. Panavala	DRAWN BY: D. Hauer	SCALE: 3:1
			FILE: SBT-QFE-3000	DATE: 2/25/13	

Rev	Date	Initials	Description
A	02/25/13	VP	Original
B	05/18/15	DH	Changed IC Guide material from Ultem to Torlon
C	06/08/15	DH	Updated PCB layout page