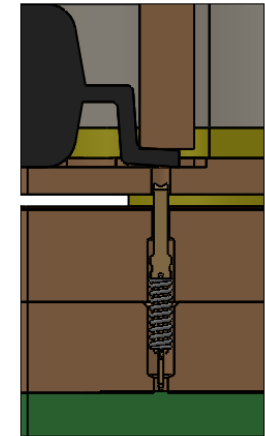
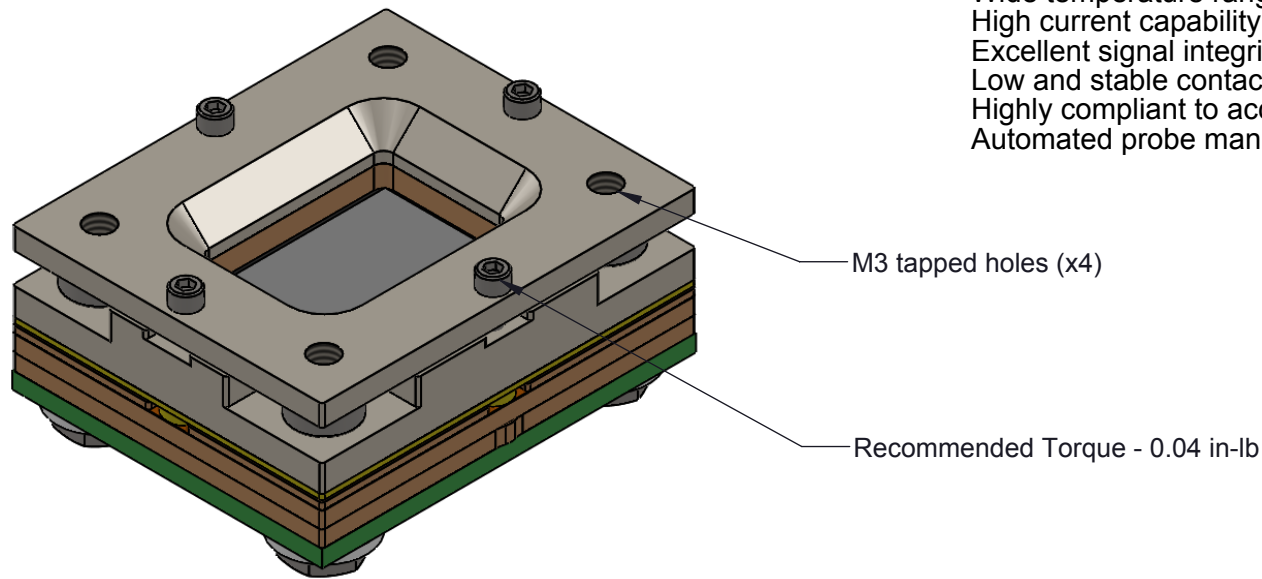


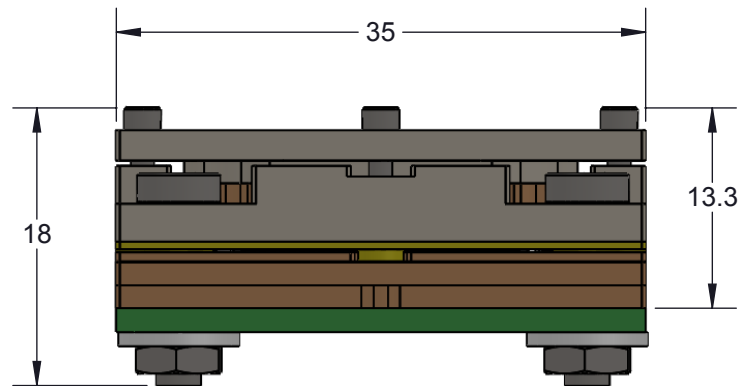
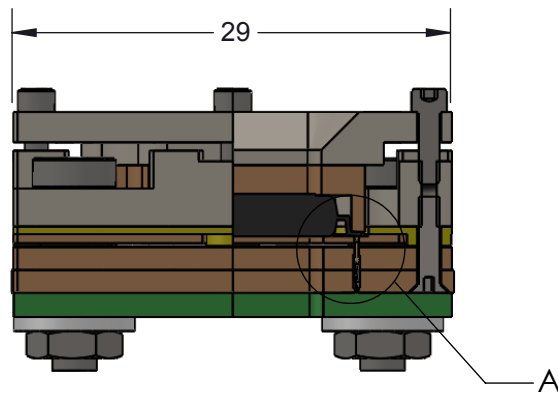
# SBT-QFE DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

## FEATURES:

Wide temperature range (-55C to +180C )  
High current capability (up to 6A )  
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



**DETAIL A**  
**SCALE 8 : 1**



## Description: SBT HiQuad-92 OPEN

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.

### SBT-QFE-3003 Drawing



Ironwood Electronics, Inc.  
Tele: (800) 404-0204  
www.ironwoodelectronics.com

Material: N/A  
Finish: N/A  
Weight: 22.27

STATUS: Released

ENG: M. A. Fedde

FILE: SBT-QFE-3003 Dwg

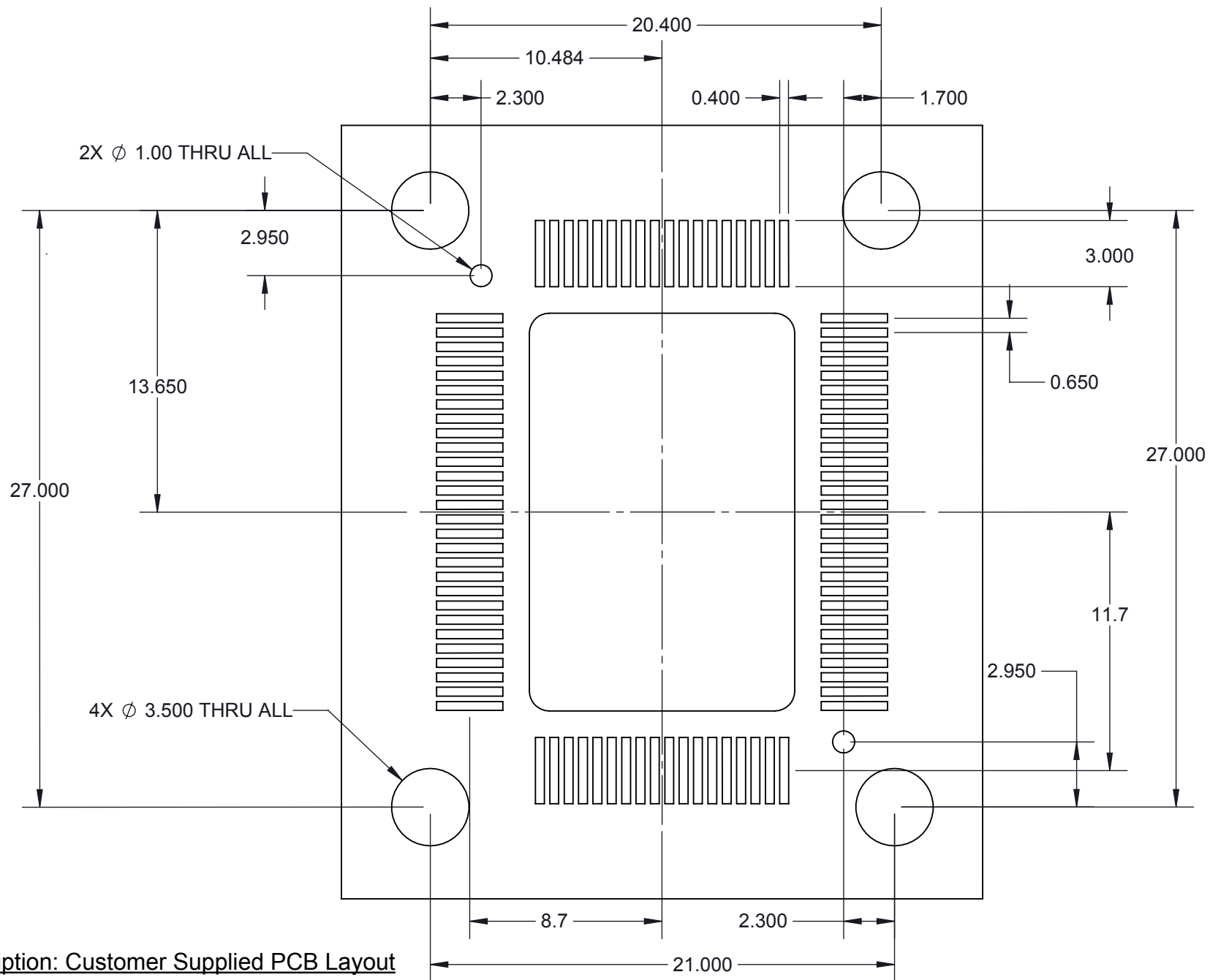
SHEET: 1 OF 4

DRAWN BY: M. Raske

DATE: 02/14/2014

REV. C


SCALE: 2:1

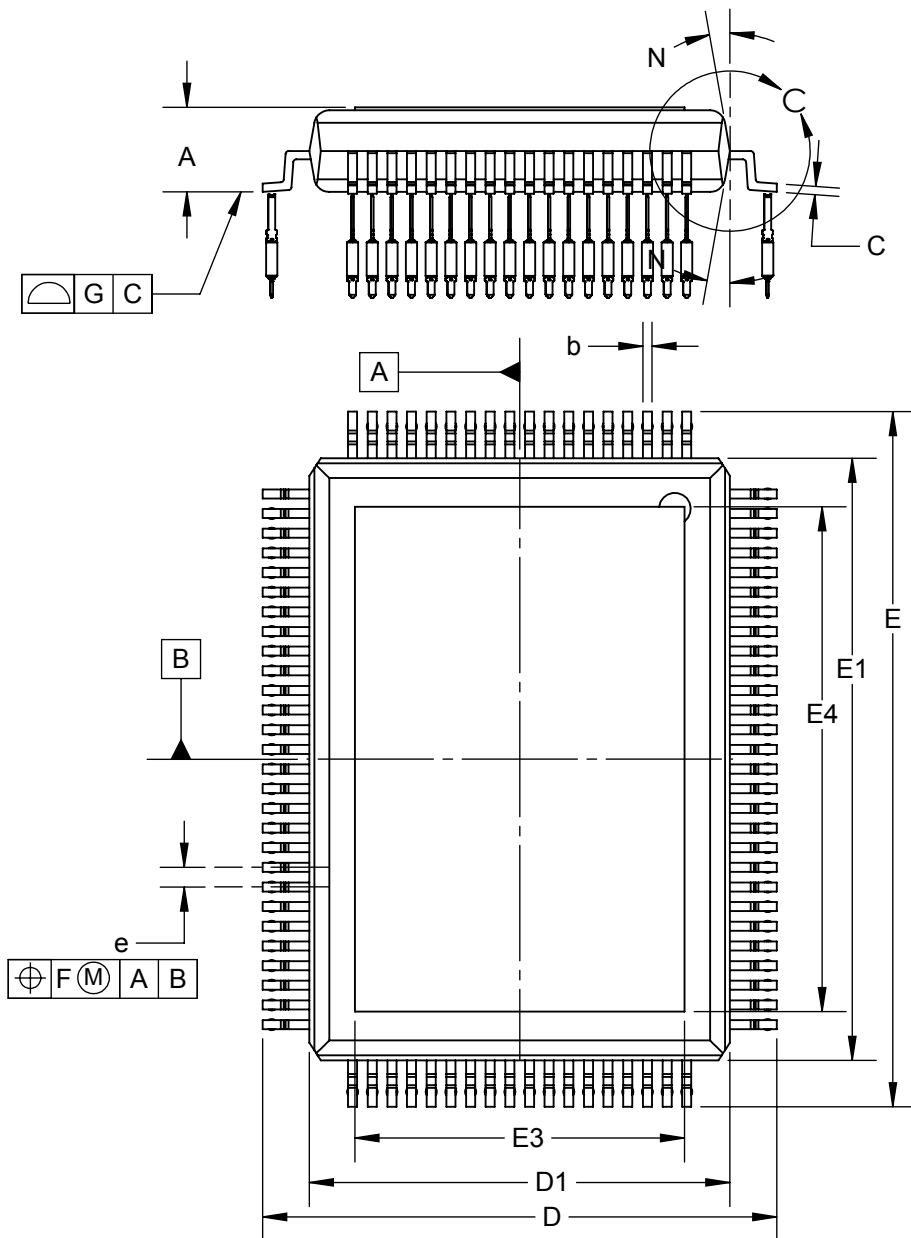


### Description: Customer Supplied PCB Layout

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

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

<b>SBT-QFE-3003 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 22.27	STATUS: Released	SHEET: 2 OF 4	REV. C
		ENG: M. A. Fedde	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: SBT-QFE-3003 Dwg	DATE: 02/14/2014	



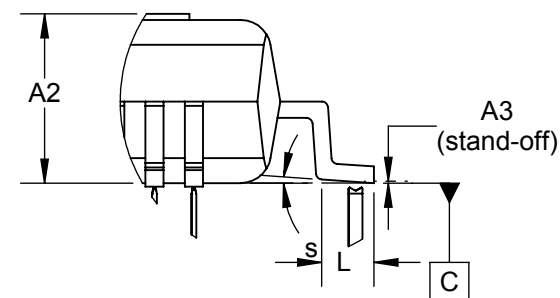
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.

### Description: HiQUAD-92

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.

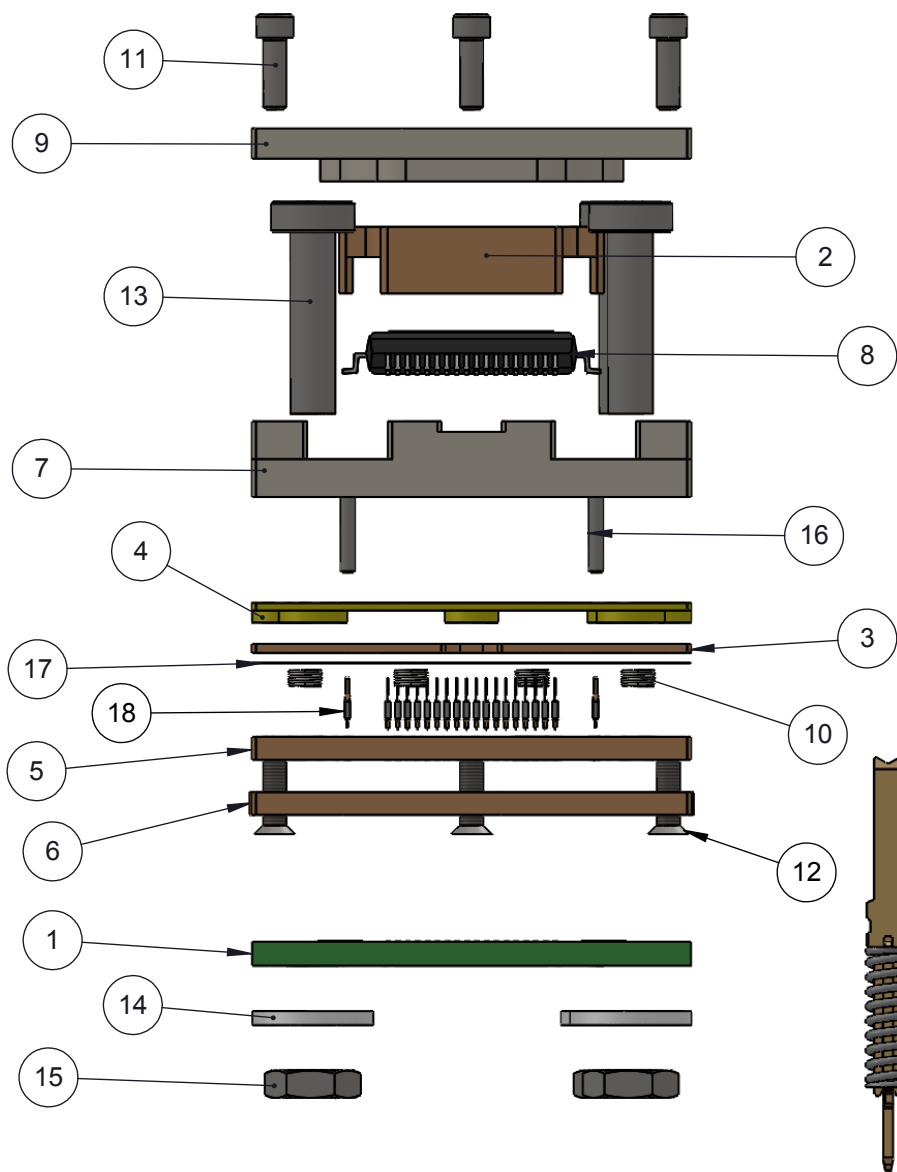
### Ironwood Package Code: QFE92RA



### DETAIL C SCALE 8 : 1

DIM	Minimum	Typ.	Maximum
A			3.25
A2	2.500		2.900
A3	-0.05		0.05
b	0.220		0.380
c	0.230		0.320
D	17.000		17.400
D1	13.900	14.000	14.100
E	23.000		23.400
E3	10.700		11.100
E4	16.500		16.900
e		0.650	
F		0.120	
G		0.100	
L	0.800		1.100
N			10°
s	0°		8°
PIN COUNT			92

 <b>SBT-QFE-3003 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 22.27	STATUS: Released	SHEET: 3 OF 4	REV. C
		ENG: M. A. Fedde	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: SBT-QFE-3003 Dwg	DATE: 02/14/2014	



**Pin Detail  
Scale 16:1**


ITEM NO.	Description	Material
1	PCB board	FR4 High temp
2	CMP PLT OPEN QFE92	Torlon 4203
3	FLT GDE OPEN QFE92 0.65MM P	Semitron MDS 100
4	IC GDE OPEN QFE92	Torlon 4203
5	MDE GDE OPEN QFE92 0.65MM P	Semitron MDS 100
6	BTM GDE OPEN QFE92 0.65MM P	Semitron MDS 100
7	SKT BS 27MM CSTM FTPrNT QFE92	7075-T6 Aluminum Alloy
8	QFP HiQUAD-92 (slug-up) Chip	Material <not specified>
9	SKT LID OPEN CSTM FTPRT QFE92	7075-T6 Aluminum Alloy
10	Floating Guide Spring	Alloy Steel (SS)
11	#0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
12	#0-80X0.25", 90 deg., head pin guide screw, Peek material	PEEK unfilled
13	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
14	M3 Nylon washer	Nylon 6/6
15	M3x0.5mm nut 1.8mm thick	18-8 Stainless Steel
16	Dowel Pin, M0.95 dia, 5mm long	Stainless Steel (18-8)
17	PIN ORN GDE OPEN QFE92 0.65MM P	Kapton Polyimide/Cirlex
18	SBT Pin, SBT-BGA 0.5mm-0.8mm	

## Description: Socket Assy

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.

Rev	Date	Initials	Description
A	02/14/14	MR	Original
B	09/22/14	DH	Change IC Guide material to Torlon
C	02/03/15	RP/MR	P-P196A was P-P149A, R3182 was R1392

<b>SBT-QFE-3003 Drawing</b>		STATUS: Released		SHEET: 4 OF 4		REV. C	
 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: M. A. Fedde		DRAWN BY: M. Raske		SCALE: 2:1	
		FILE: SBT-QFE-3003 Dwg		DATE: 02/14/2014			

Material: N/A  
Finish: N/A  
Weight: 22.27