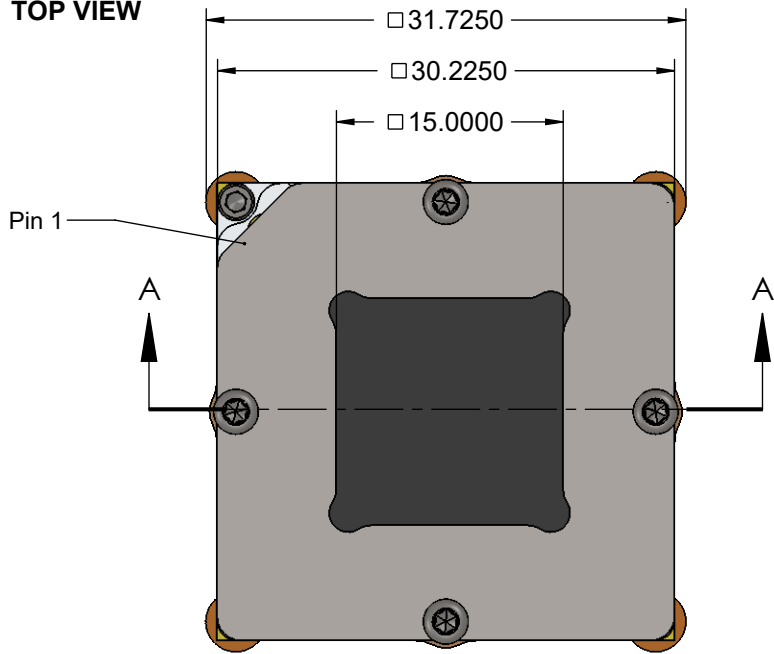


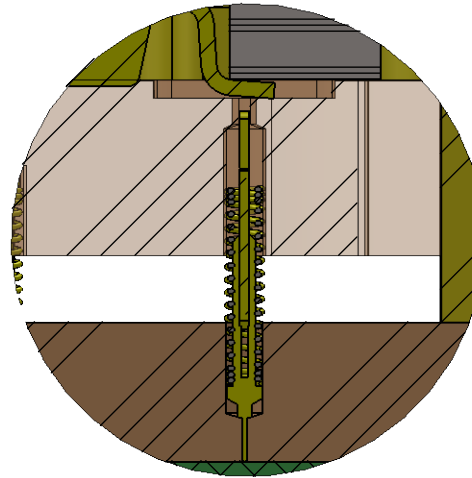
SBT-QFE144 DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

TOP VIEW



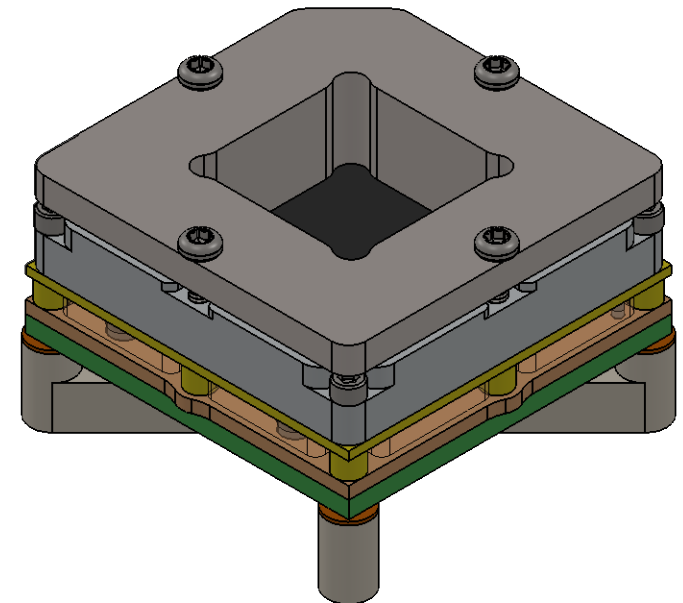
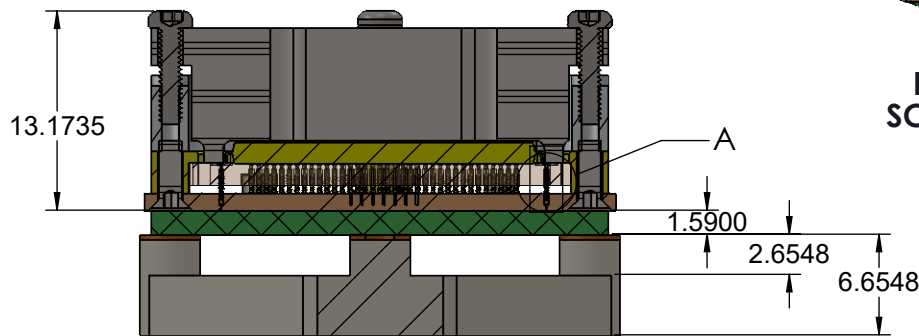
Features

- Wide temperature range (-55C to +180C).
- High current capability (up to 1.8A).
- 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 16 : 1

SECTION A-A



Description: SBT Socket for QFP144

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-3011 Drawing



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

Material: N/A
Finish: N/A
Weight: 19.55

STATUS: Released

ENG: E. Smolentseva

FILE: SBT-QFE-3011 Dwg

SHEET: 1 OF 4

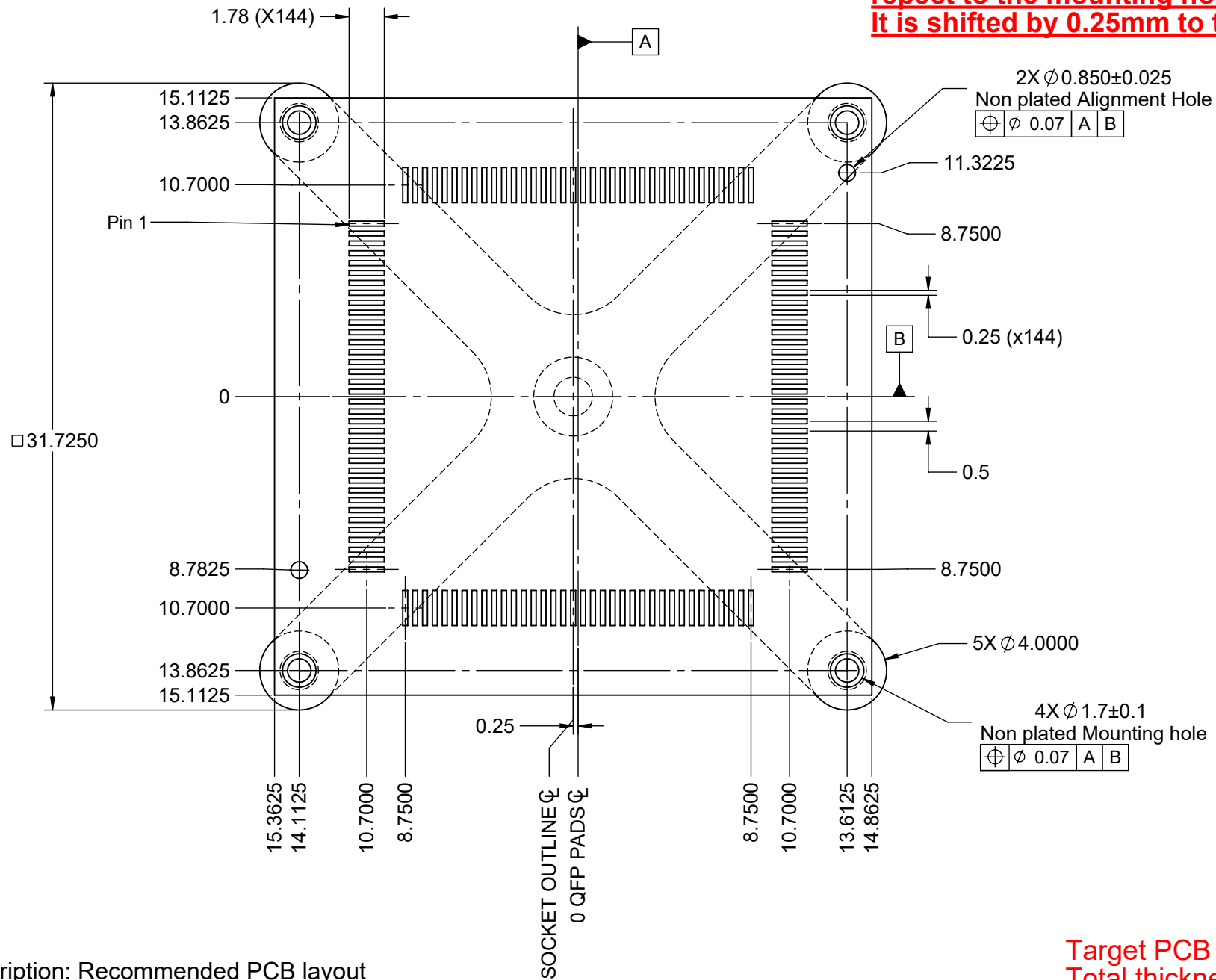
DRAWN BY: M. Raske

DATE: 1/19/2017

REV. A

SCALE: 2:1


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

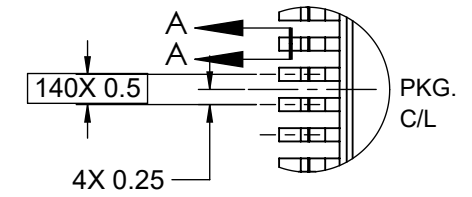
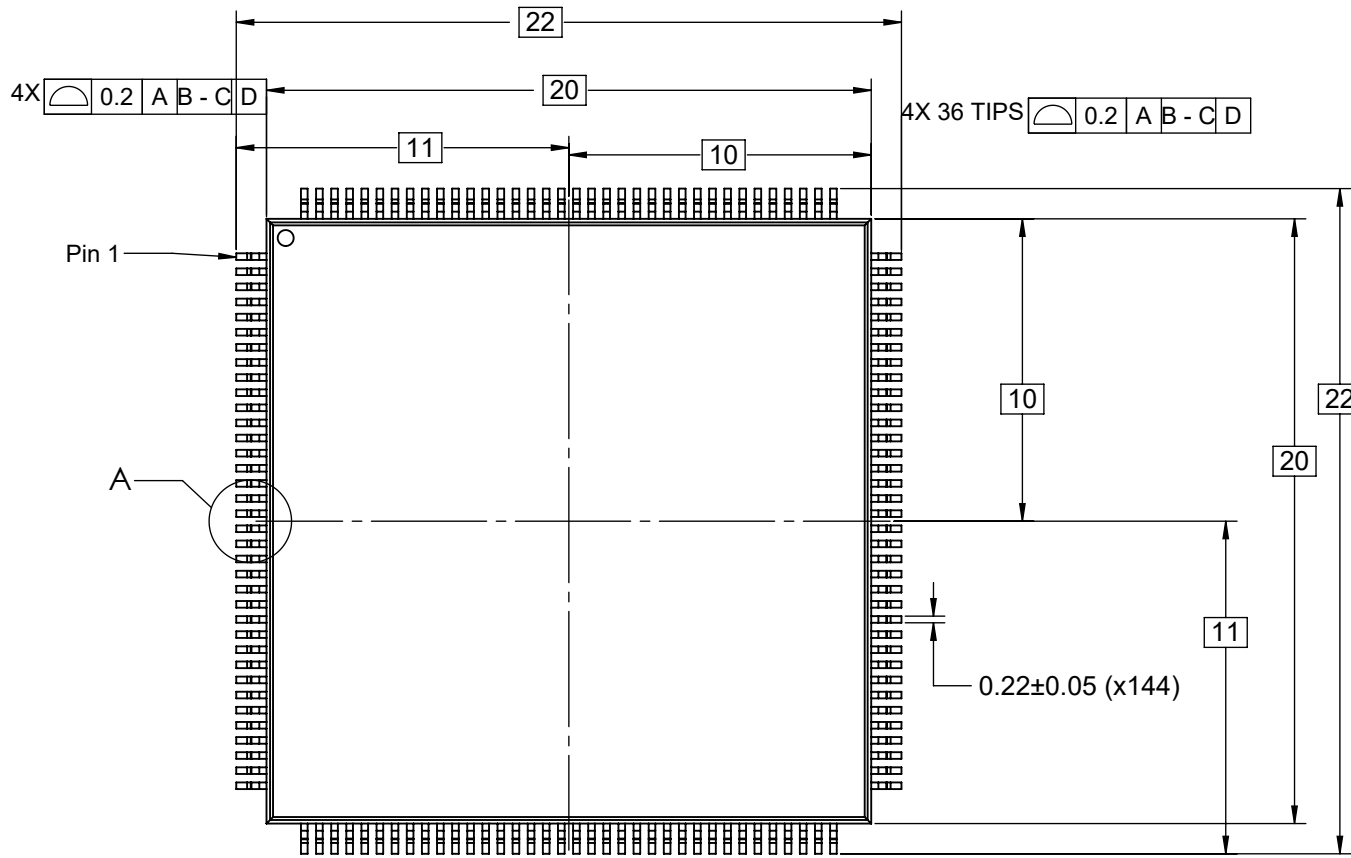


Description: Recommended PCB layout

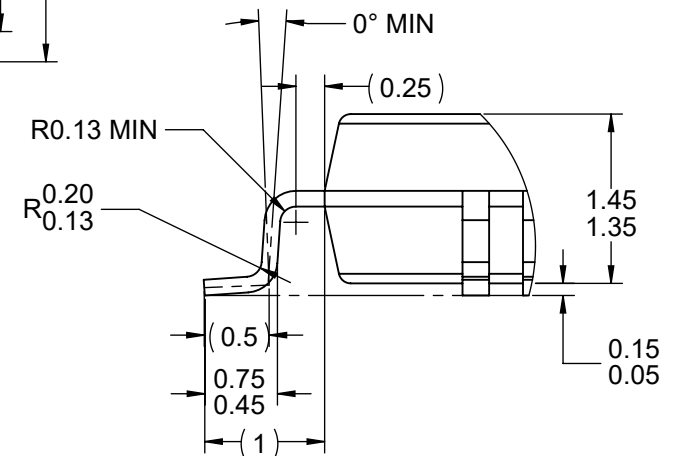
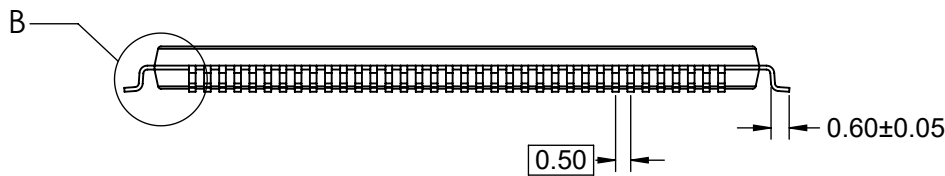
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.
Tolerances: Hole diameters $\pm 0.03\text{mm}$ [± 0.001 "], Pitches (from true position) $\pm 0.025\text{mm}$ [± 0.001 "], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$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

Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish

 SBT-QFE-3011 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 19.55	STATUS: Released ENG: E. Smolentseva FILE: SBT-QFE-3011 Dwg	SHEET: 2 OF 4 DRAWN BY: M. Raske DATE: 1/19/2017	REV. A SCALE: 3.5:1



DETAIL A
SCALE 8 : 1




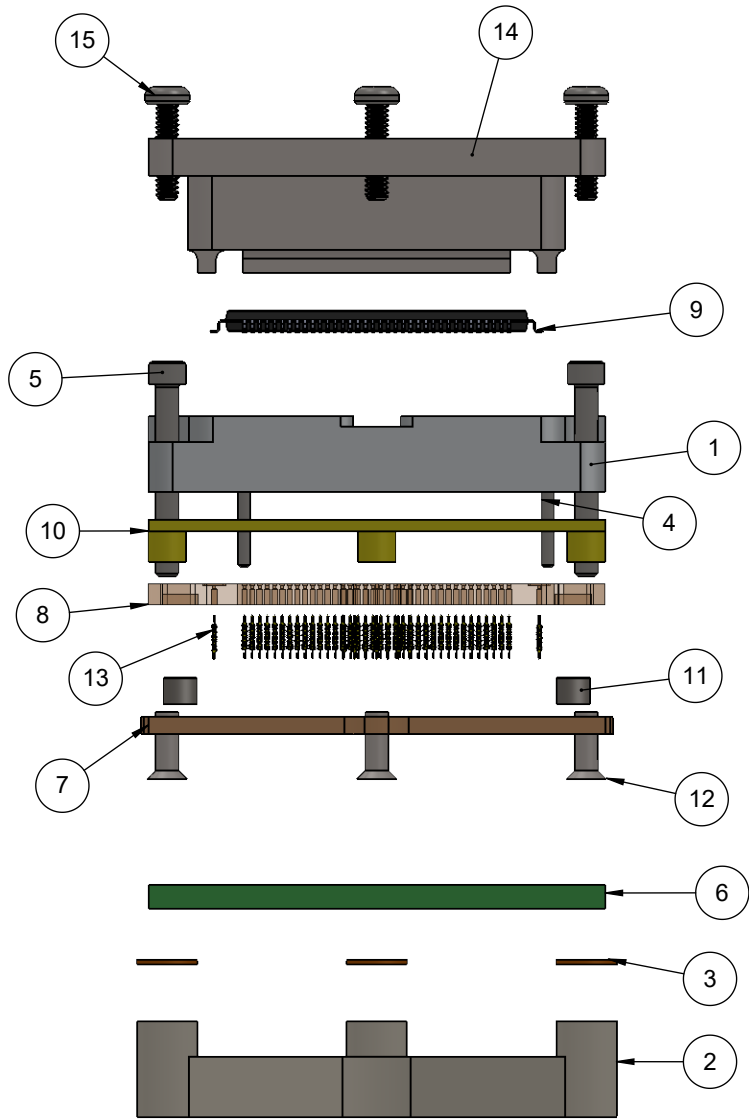
DETAIL B
SCALE 16 : 1

Description: Compatible IC

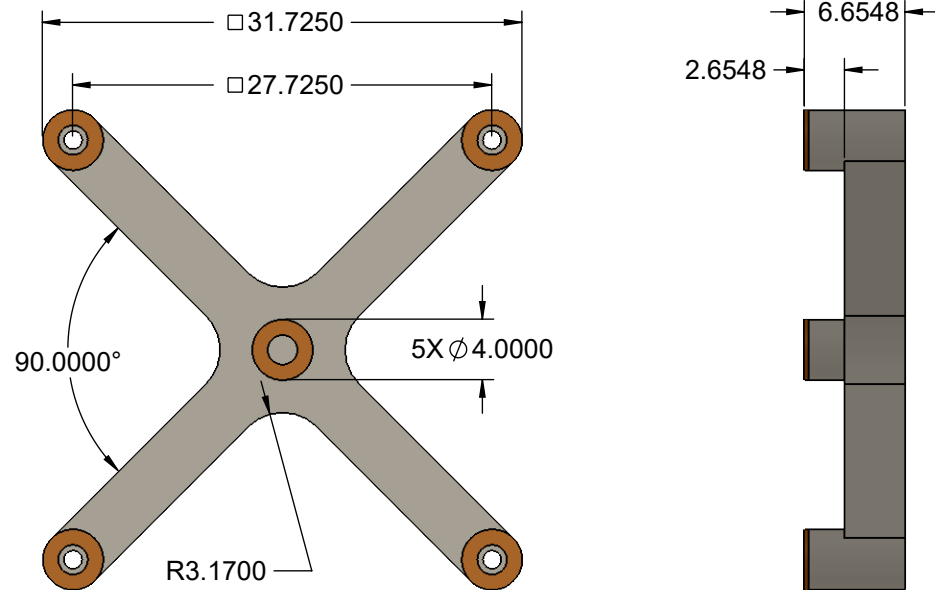
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 <p>SBT-QFE-3011 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 19.55</p>	<p>STATUS: Released ENG: E. Smolentseva FILE: SBT-QFE-3011 Dwg</p>	<p>SHEET: 3 OF 4 DRAWN BY: M. Raske DATE: 1/19/2017</p>	<p>REV. A SCALE: 4:1</p>




ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Alumium Alloy
2	SBT/CBT Backing Plate 25mm IC	7075-T6 Aluminum Alloy
3	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
4	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
5	#0-80 x 0.5, SH Cap Screw	Alloy Steel
6	Test Board QFE144 0.5mm pitch	FR4 High temp
7	Bottom Guide, QFE144 0.5mm pitch	Semitron MDS 100
8	Floating Guide QFE144 0.5mm pitch	Semitron MDS 100
9	QFP144 device	
10	Socket Base Frame QFE144 20x20mm	Torlon 4203
11	Floating Guide Spring	Alloy Steel (SS)
12	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled
13	Stamped Pin, 0.4mm SBT-LGA/QFN	N/A
14	Compression Plate	PEEK
15	Pan Head Torx Machine Screw, 0-80 Thread, 1/4" Length, 18-8 Stainless Steel	Stainless Steel (18-8)



Description: Skt, Insulation Plate, Pin Det

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-3011 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 19.55	STATUS: Released ENG: E. Smolentseva FILE: SBT-QFE-3011 Dwg	SHEET: 4 OF 4 DRAWN BY: M. Raske DATE: 1/19/2017	REV. A SCALE: 2:1