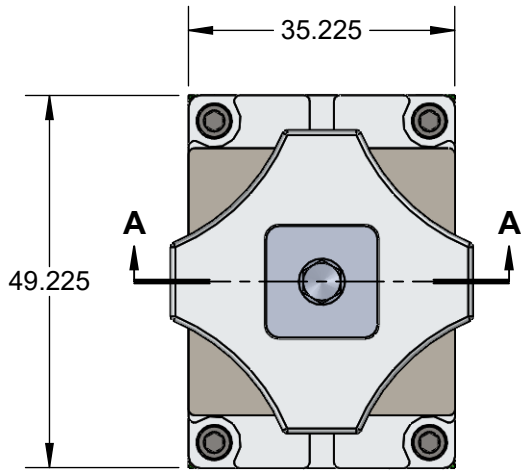
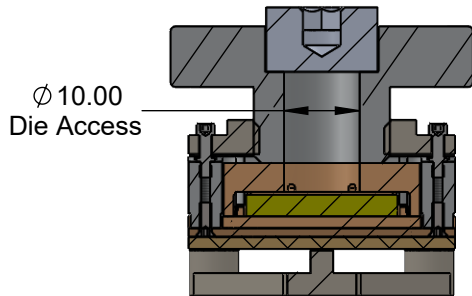


SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

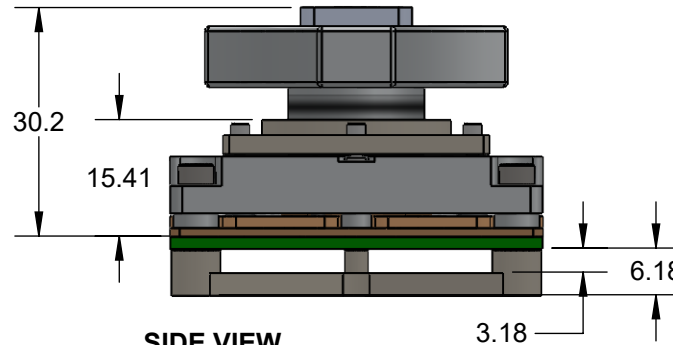
- FEATURES:**
- Wide temperature range (-55C to +180C)
 - High current capability (up to 2A)
 - Excellent signal integrity at high frequencies
 - Low and stable contact resistance for reliable production yield
 - Highly compliant to accommodate wide co-planarity variations
 - Automated probe manufacturing enables low cost and short lead time



TOP VIEW

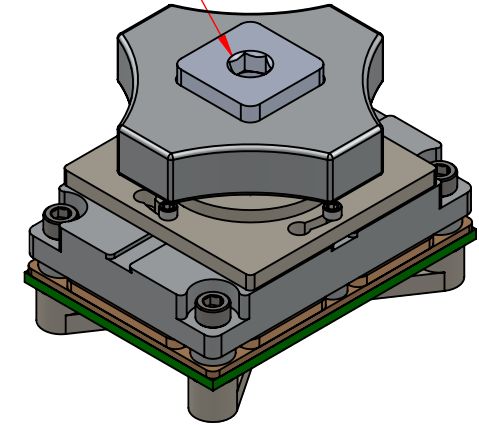


SECTION A-A



SIDE VIEW

Torque Until Floating Guide Contacts Bottom Guide
Required Torque: Approx. 1.0 lbf-in [11 N-cm]




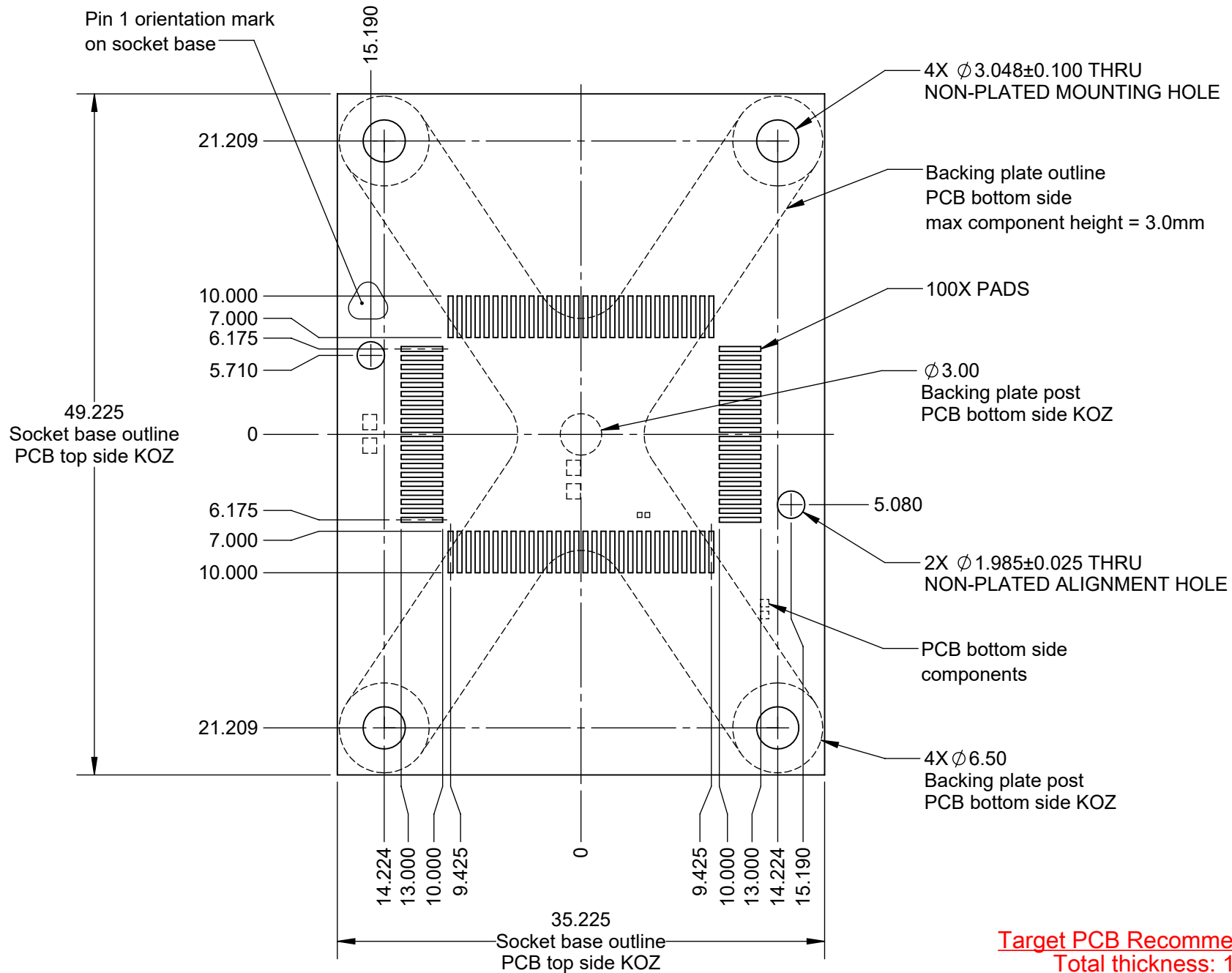
ISO VIEW

Description: SBT-QFP100, 14x20mm Body, 18x24mm T2T, 0.65mm Pitch, die access compression screw

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.

 <p>SBT-QFE-3018 Drawing ©2018 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 83.70</p>	<p>STATUS: Released ENG: M. Newby FILE: SBT-QFE-3018 Dwg</p>	<p>SHEET: 1 OF 5 DRAWN BY: M. Raske DATE: 06/22/2018</p>	<p>REV. A SCALE: 1:1</p>




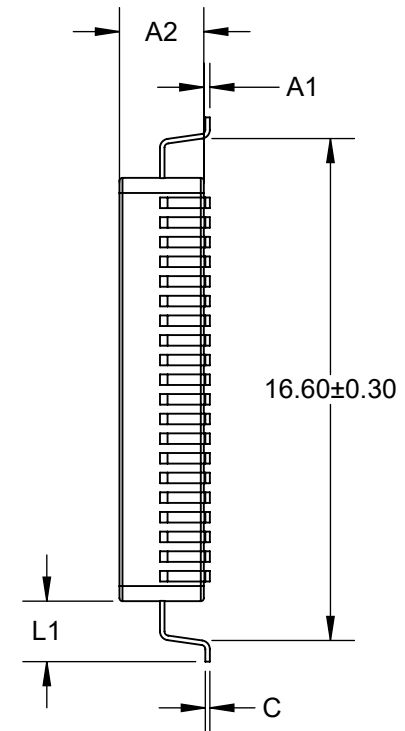
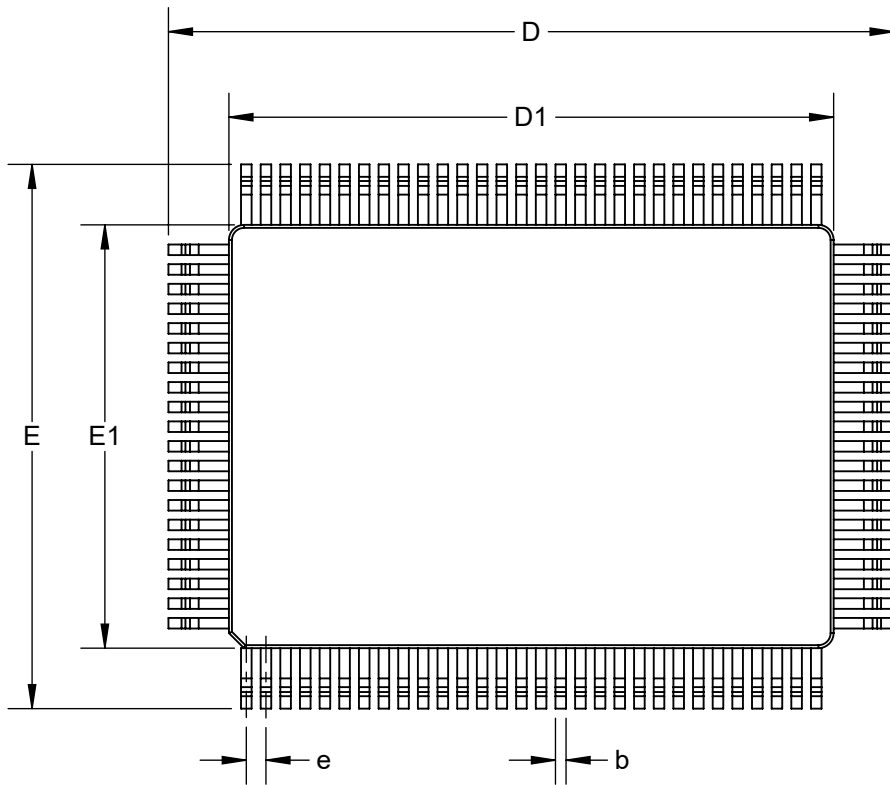
Target PCB Recommendations
Total thickness: 1.59mm min.
Plating: Gold or Solder finish

Description: Recommended PCB Layout

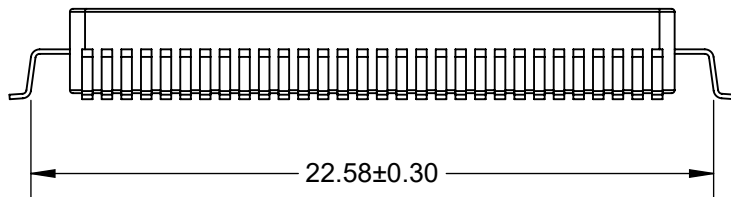
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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

 <p>SBT-QFE-3018 Drawing ©2018 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 83.70</p>	<p>STATUS: Released</p>	<p>SHEET: 2 OF 5</p>	<p>REV. A</p>
	<p>ENG: M. Newby</p>	<p>DATE: 06/22/2018</p>	<p>DRAWN BY: M. Raske</p>	<p>SCALE: 5:2</p>
	<p>FILE: SBT-QFE-3018 Dwg</p>			



16.60±0.30



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


Description: Compatible BGA

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

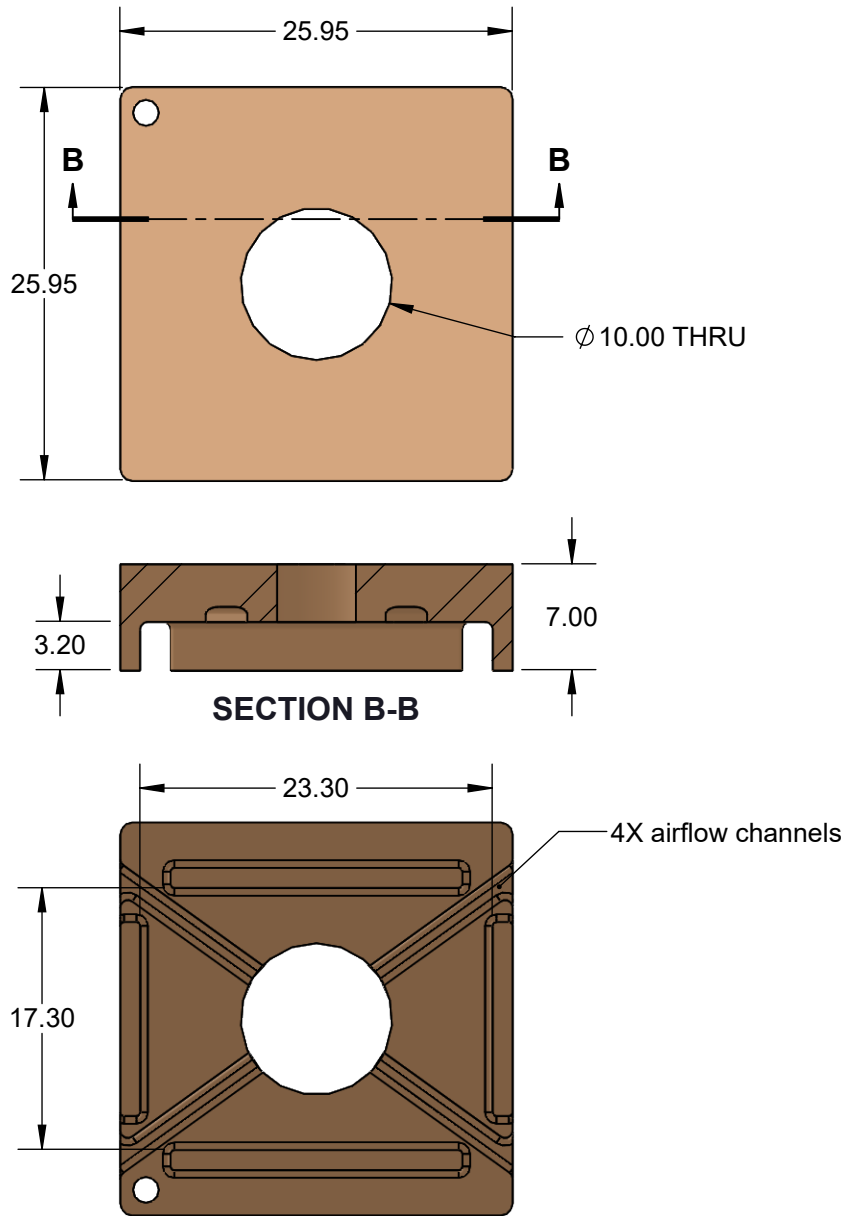
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

Ironwood Package Code: QFE100RJ

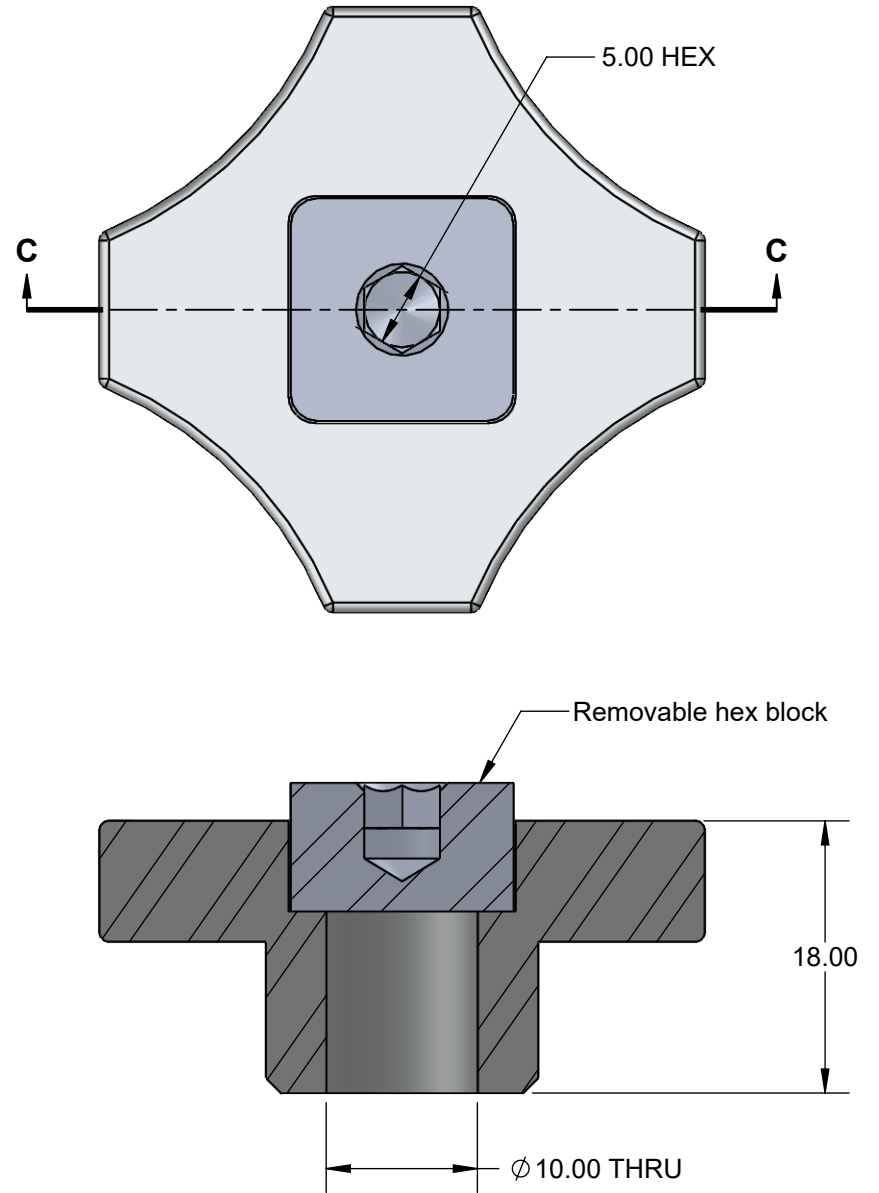
DIM	Minimum	Maximum
A1	0.10	0.30
A2	-	2.79
b	0.30	0.40
D	24.00 BSC	
E	18.00 BSC	
D1	20.00 BSC	
E1	14.00 BSC	
e	0.65 BSC	
PIN COUNT		100

 SBT-QFE-3018 Drawing ©2018 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 83.70	STATUS: Released ENG: M. Newby FILE: SBT-QFE-3018 Dwg	SHEET: 3 OF 5 DRAWN BY: M. Raske DATE: 06/22/2018	REV. A SCALE: 4:1

COMPRESSION PLATE DETAIL




COMPRESSION SCREW DETAIL

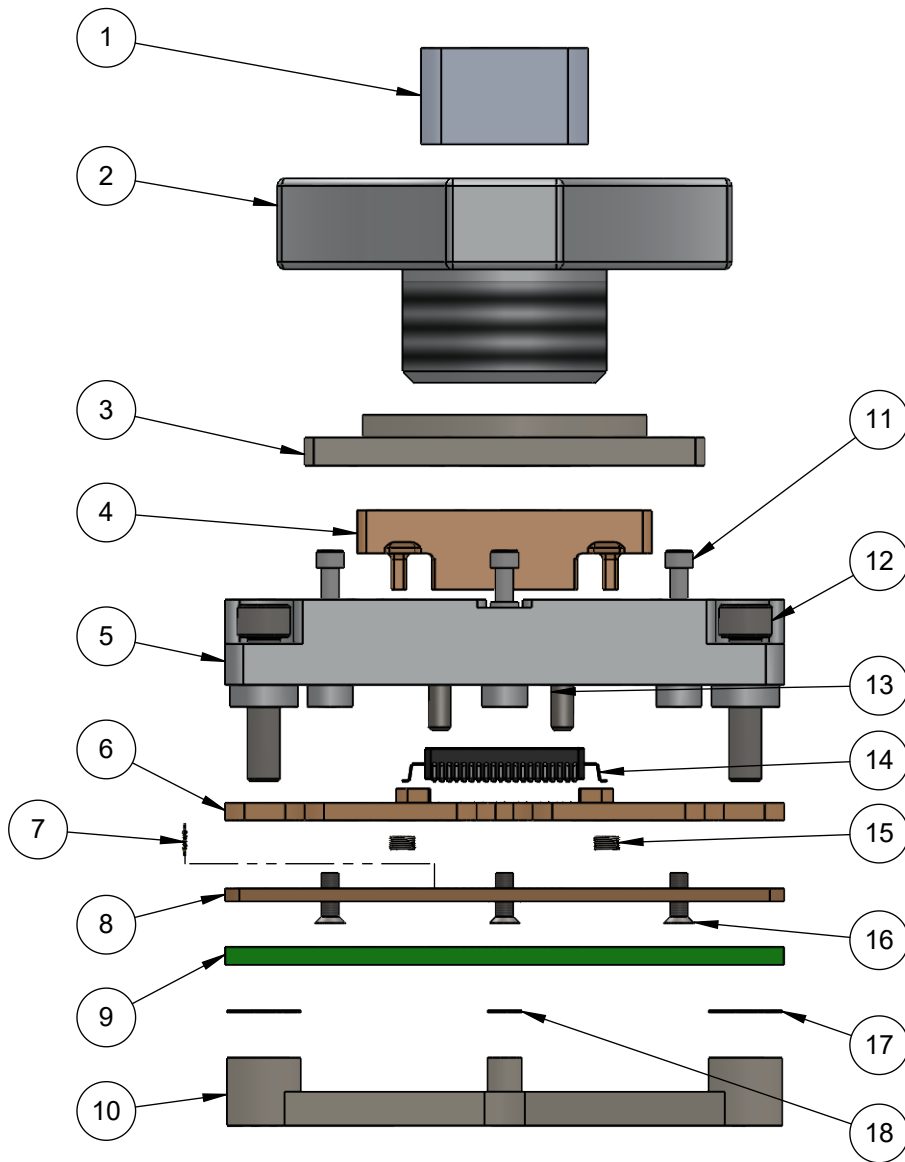


Description: Compression Plate Detail

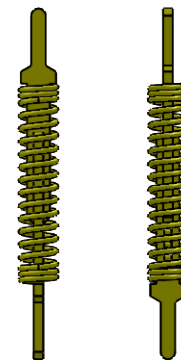
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

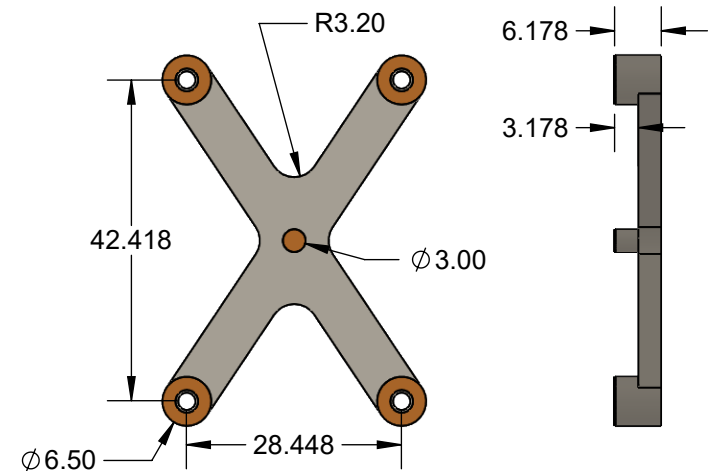
 ©2018 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	SBT-QFE-3018 Drawing	Material: N/A Finish: N/A Weight: 83.70	STATUS: Released	SHEET: 4 OF 5	REV. A
			ENG: M. Newby FILE: SBT-QFE-3018 Dwg	DRAWN BY: M. Raske DATE: 06/22/2018	SCALE: 2:1



ITEM NO.	DESCRIPTION	Material
1	Compression Screw block	7075-T6 Aluminum Alloy
2	Fluted Knob Compression Screw	7075-T6 Aluminum Alloy
3	Socket Lid	7075-T6 Aluminum Alloy
4	Compression Plate	Torlon 5530
5	Socket Base	7075-T6 Alumium Alloy
6	Floating Guide	Semitron MDS 100
7	Stamped Pin, 0.4mm SBT-LGA/QFN	Au Plated Over Ni
8	Bottom Guide	Semitron MDS 100
9	Test PCB	N / A
10	Backing Plate	7075-T6 Aluminum Alloy
11	#0-80 Shoulder Screw	Stainless Steel (303)
12	Socket Head Screw, #4-40 X 1/2"	Alloy Steel
13	Dowel pin, 0.076" dia	Stainless Steel
14	Test Chip	N / A
15	Floating Guide Spring	Alloy Steel (SS)
16	#0-80 Head Pin Guide Screw	PEEK
17	Insulating washer, 6.5mm OD. 3mm ID	Kapton Polyimide/Cirlex
18	Insulating washer, 3mm OD.	Kapton Polyimide/Cirlex



**PIN DETAIL
16:1 SCALE**




**BACKING PLATE DETAIL
1:1 SCALE**

Description: Socket Assy, Insulation Plate

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-3018 Drawing ©2018 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 83.70	STATUS: Released ENG: M. Newby FILE: SBT-QFE-3018 Dwg	SHEET: 5 OF 5 DRAWN BY: M. Raske DATE: 06/22/2018	REV. A SCALE: 3:2