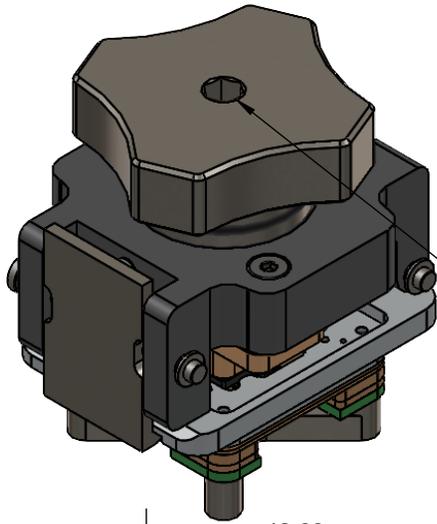


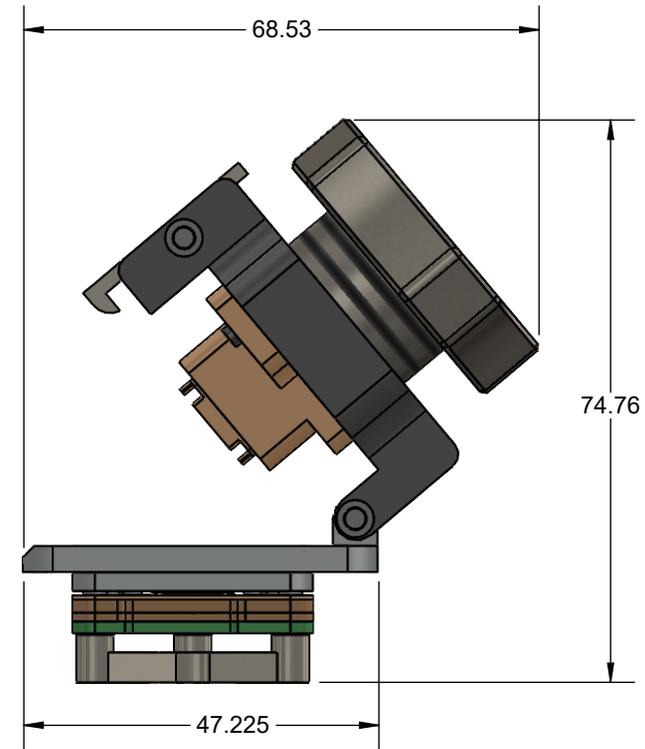
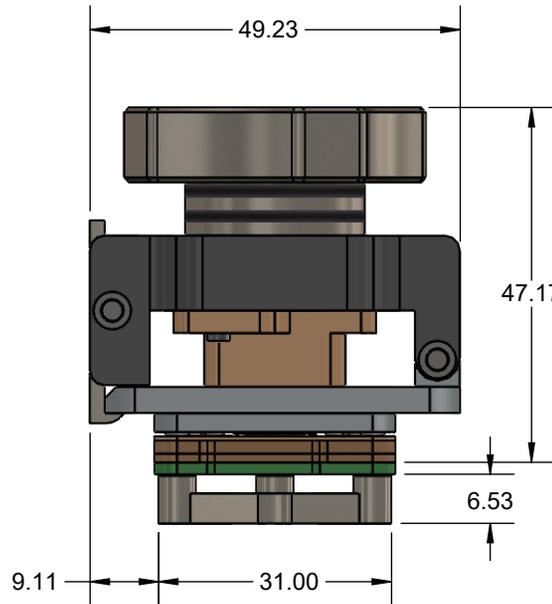
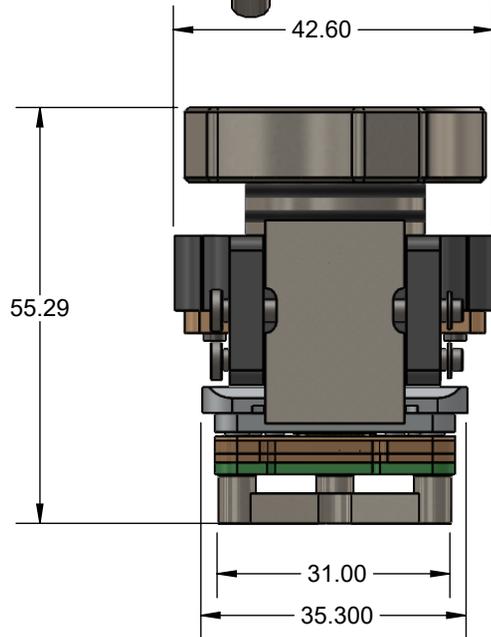
CBT-QFE DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

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



RECOMMENDED TORQUE: 11.3 N-cm[1lbf-in]

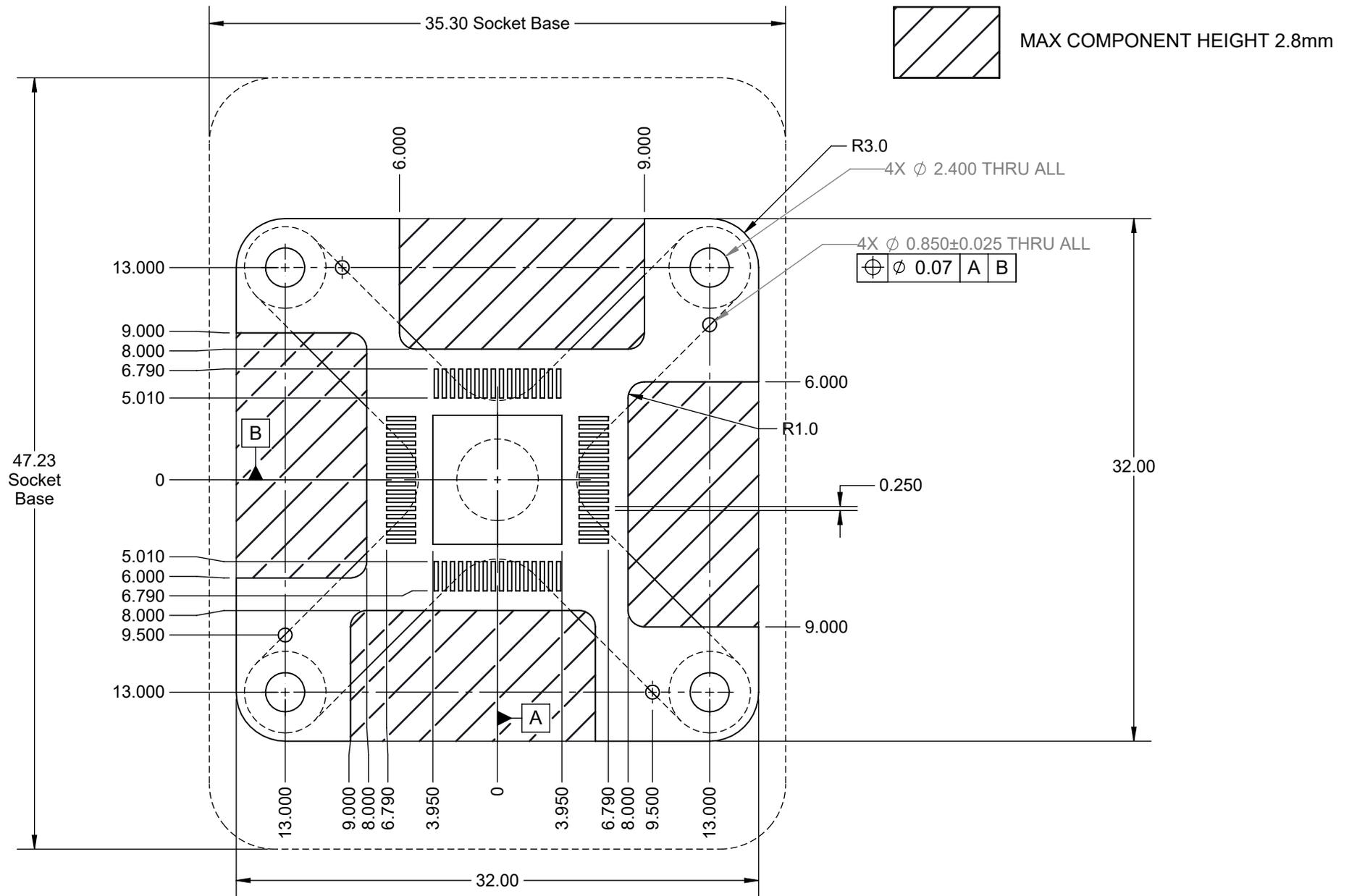


Description: CBT-FLATPK64 for 10.9mmsq, 20mm t2t, 0.5mm pitch (Copper slug)

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.

 <p>©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>CBT-QFE-3011 Drawing</p>	<p>Material: N/A Finish: N/A Weight: 123.32</p>	<p>STATUS: Released</p>	<p>SHEET: 1 OF 5</p>	<p>REV. A</p>
			<p>ENG: J. Vavra</p>	<p>DRAWN BY: M. Raske</p>	<p>SCALE: 1:1</p>
			<p>FILE: CBT-QFE-3011 Dwg</p>	<p>DATE: 03/27/2018</p>	

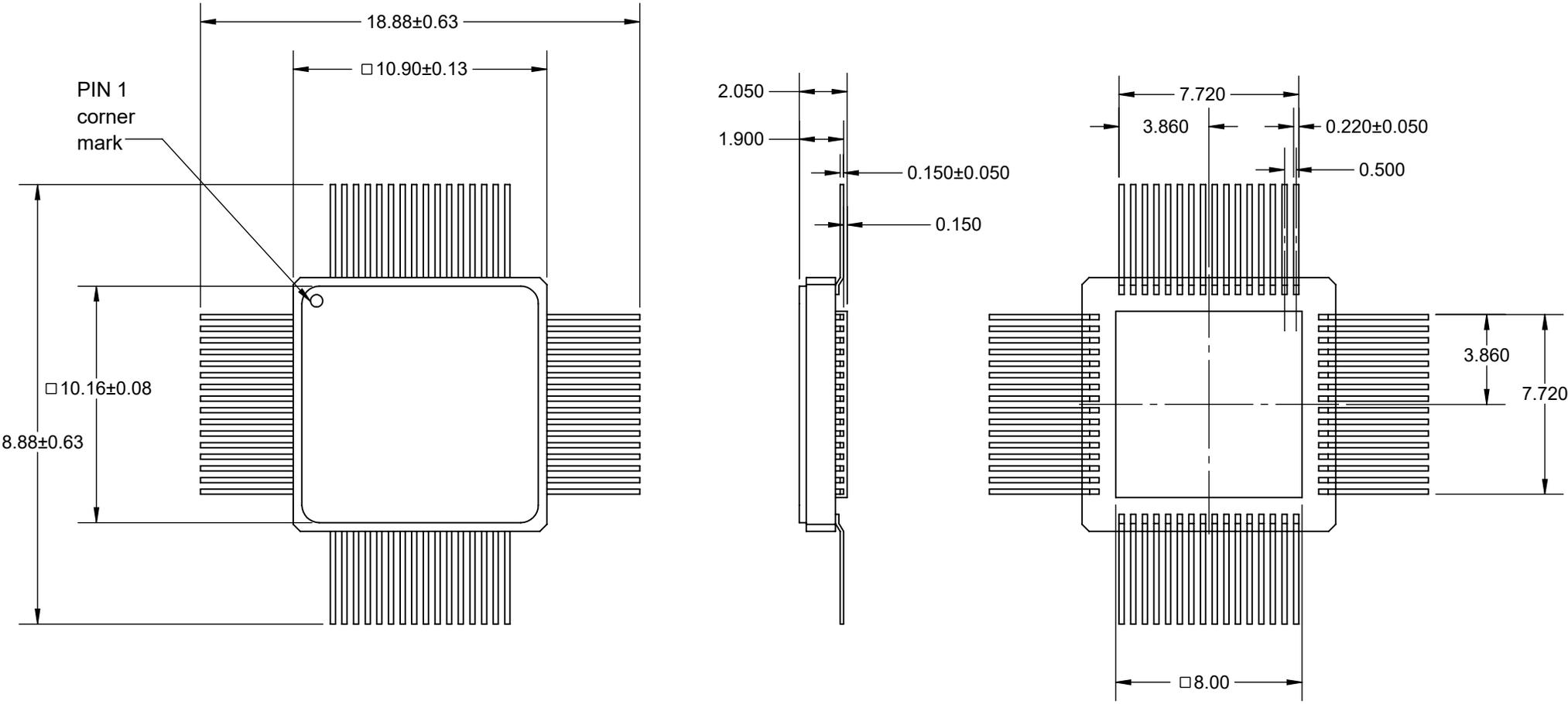


Description: Recommended PCB Layout

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

Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [$\pm 0.001"$], 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.

 CBT-QFE-3011 Drawing ©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 123.32	STATUS: Released ENG: J. Vavra FILE: CBT-QFE-3011 Dwg	SHEET: 2 OF 5 DRAWN BY: M. Raske DATE: 03/27/2018	REV. A SCALE: 3:1

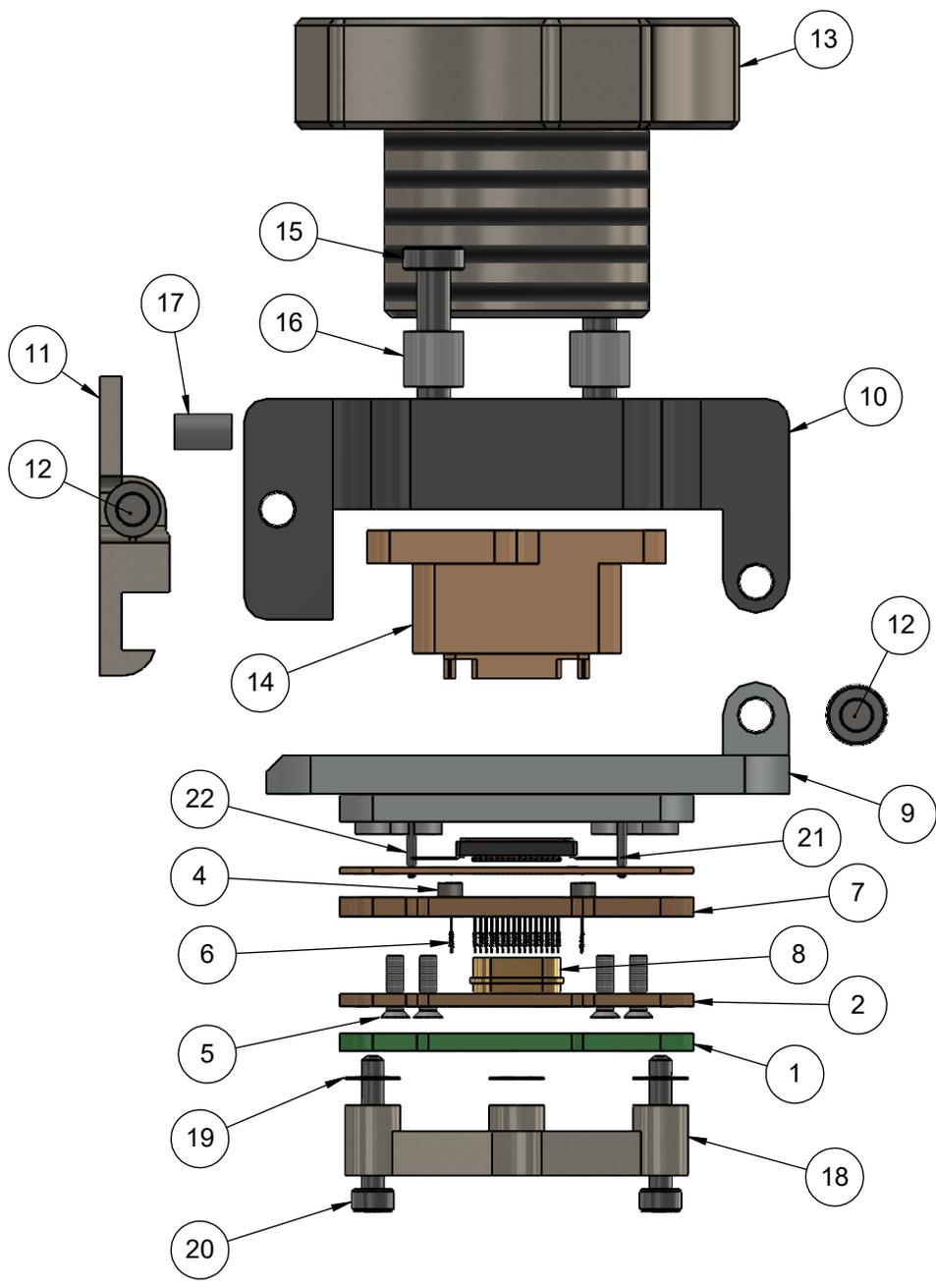


1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall exclude any effect of mark on top surface of package.

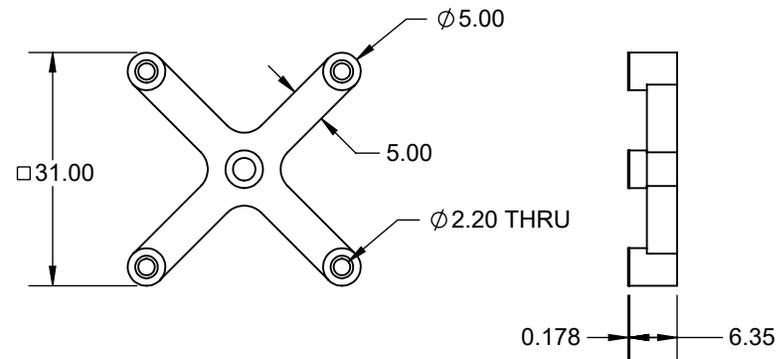
Description: Compatible Device

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.

 ©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 123.32	STATUS: Released ENG: J. Vavra FILE: CBT-QFE-3011 Dwg	SHEET: 3 OF 5 DRAWN BY: M. Raske DATE: 03/27/2018	REV. A SCALE: 4:1
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ITEM NO.	DESCRIPTION	QTY.
1	Test Board QFE64RF 18.88 T2T unformed 0.5mm pitch	1
2	Bottom Guide, QFE64RF 18.88 T2T unformed 0.5mm pitch	1
3	Floating Guide QFE64RF 18.88 T2T unformed 0.5mm pitch	1
4	Floating Guide Spring	4
5	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	4
6	Stamped Pin, 0.4mm SBT-BGA	64
7	Middle Guide, QFE64RF 18.88 T2T unformed 0.5mm pitch	1
8	Gold Plated Copper Ground Slug QFE64RF	1
9	Socket Base for- QFE64RF CBT socket	1
10	Socket Lid	1
11	Latch	1
12	Hinge Pin (R1774) and Snap Ring (R4681), 3mm OD, 30mm long, 1045 Stl, Blk Oxide	2
13	Compression Screw	1
14	Compression Plate	1
15	Screw, M3 x 12mm, Low Head Cap, SS	2
16	Spring Clamshell lid assembly	2
17	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	1
18	Backing Plate 18.8mm IC 5 post	1
19	Insulating washer, 5mm OD.	5
20	Cap, socket head, M2x0.4x12mm 18-8 Stainless Steel	4
21	CFE, Tchip, QFE64RF 18.88 T2T unformed 0.5mm pitch	1
22	Dowel pin, 1/32" X 1/4", SS	2

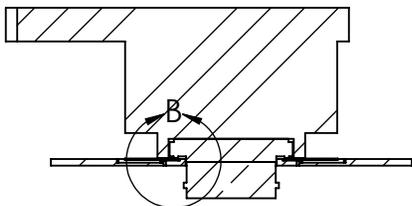
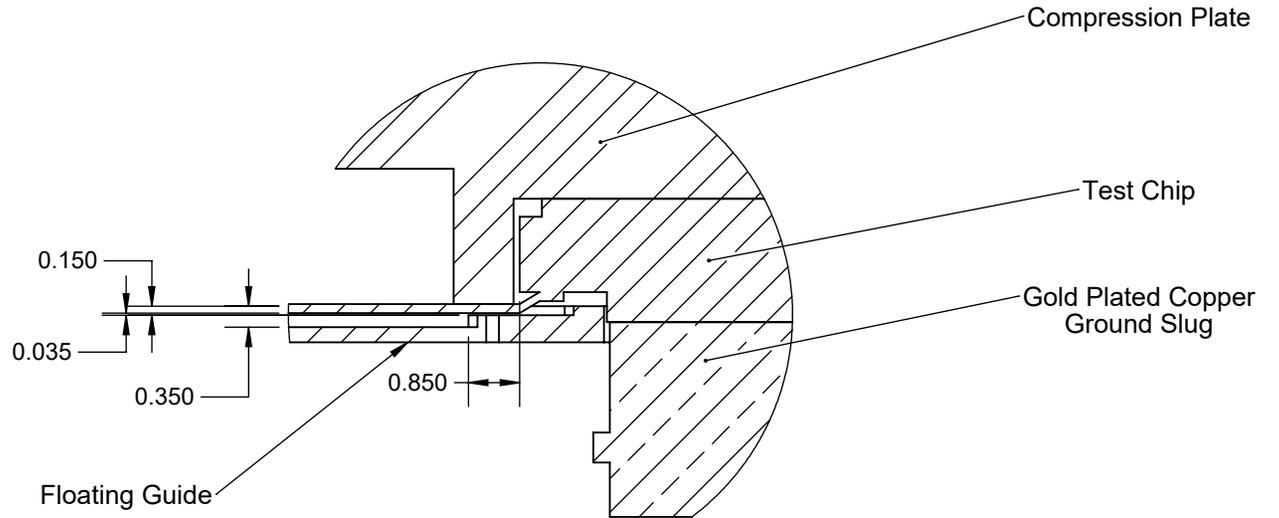
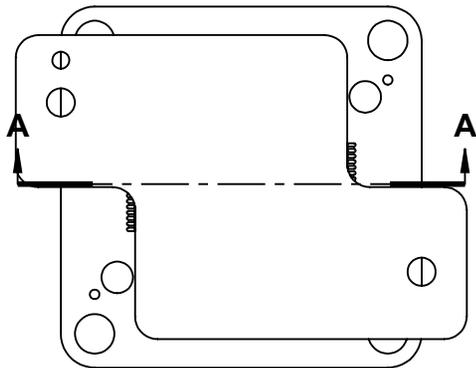


Description: Socket Assy, Insulation Plate

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

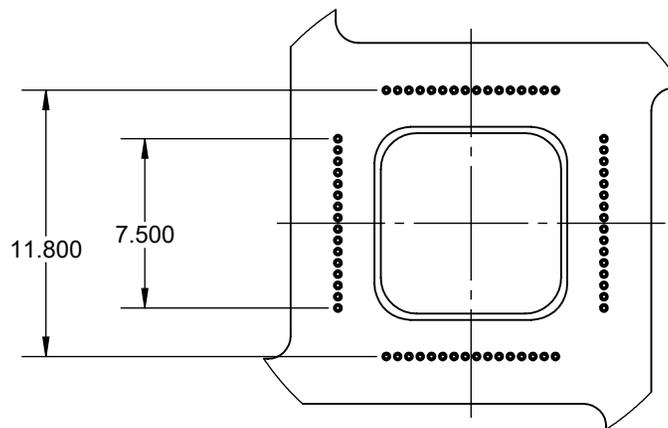
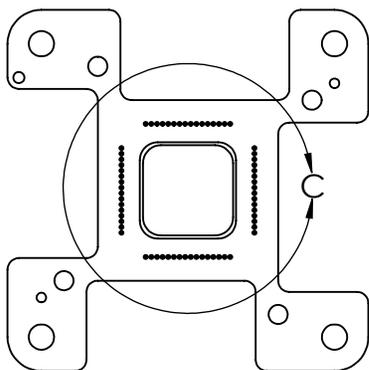
Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change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

 CBT-QFE-3011 Drawing ©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 123.32	STATUS: Released ENG: J. Vavra FILE: CBT-QFE-3011 Dwg	SHEET: 4 OF 5 DRAWN BY: M. Raske DATE: 03/27/2018	REV. A SCALE: 3:2
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SECTION A-A

**DETAIL B
SCALE 8 : 1**



Pin Locations

**DETAIL C
SCALE 3 : 1**

Description: Additional Views

Primary dimension units are millimeters, Secondary dimension units are [inches].

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>CBT-QFE-3011 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 123.32</p>	STATUS: Released	SHEET: 5 OF 5	REV. A
		DRAWN BY: M. Raske	SCALE: 3:2	
		FILE: CBT-QFE-3011 Dwg	DATE: 03/27/2018	