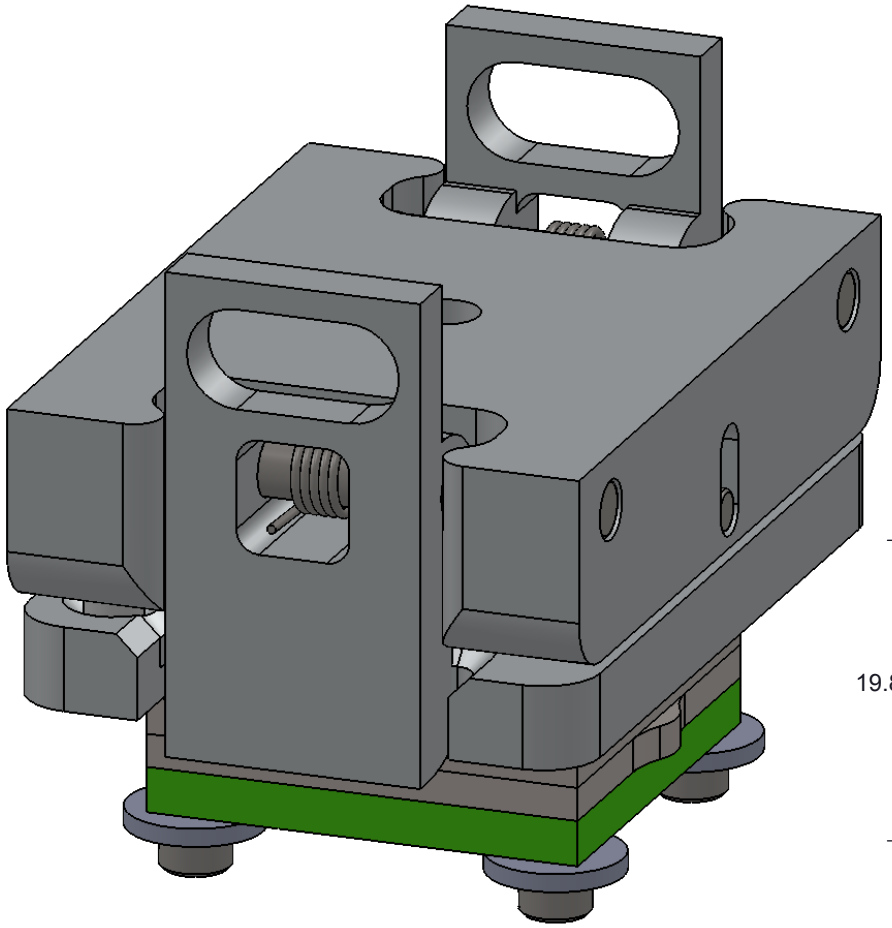
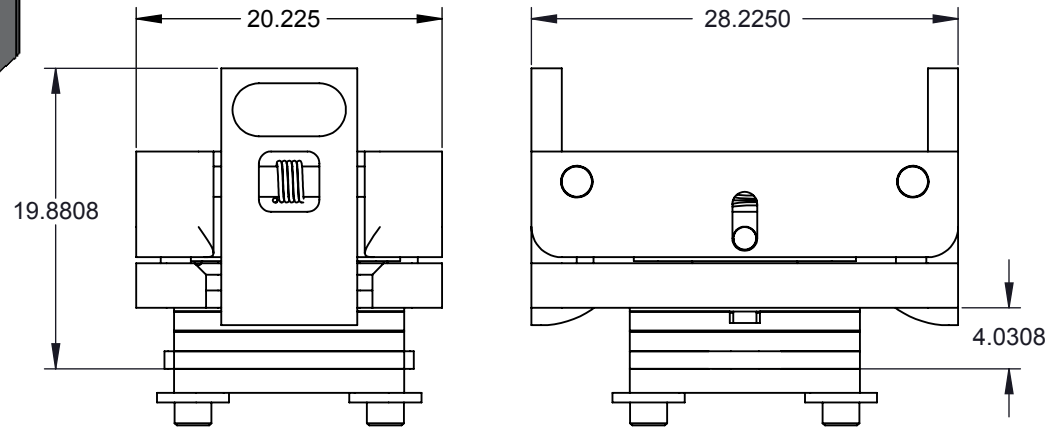
CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



Features

- Wide temperature range (-55C to +155C).
- High current capability (up to 2.5A).
- 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.

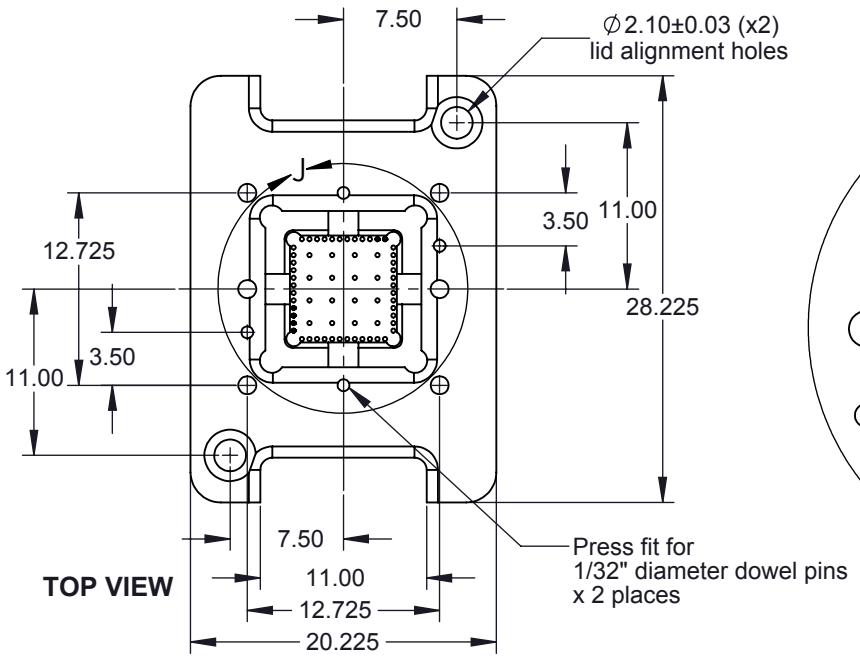


Description: CBT-QFN48, 7x7mm, 0.5mm pitch w/ snapped lid, thermocouple hole

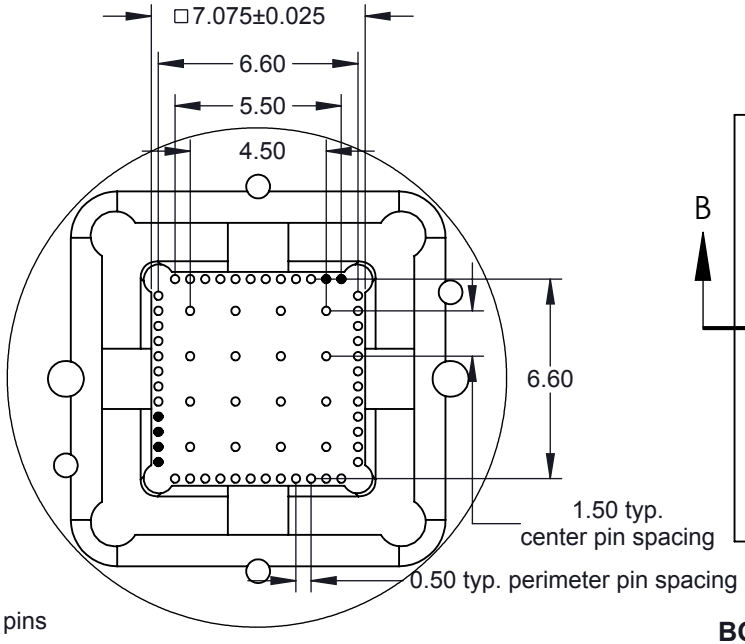
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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

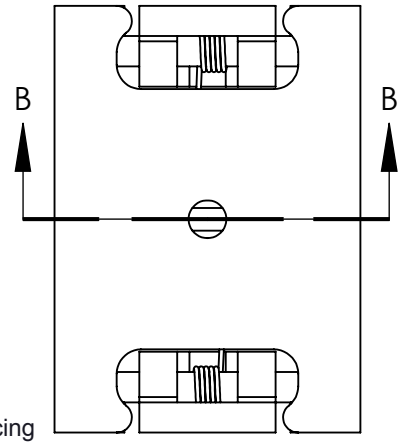
CBT-QFN-7019 Drawing	Material: N/A Finish: N/A Weight: 16.29	STATUS: Released	SHEET: 1 OF 5	REV. C
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 2:1
		FILE: CBT-QFN-7019 Dwg	DATE: 10/25/2011	



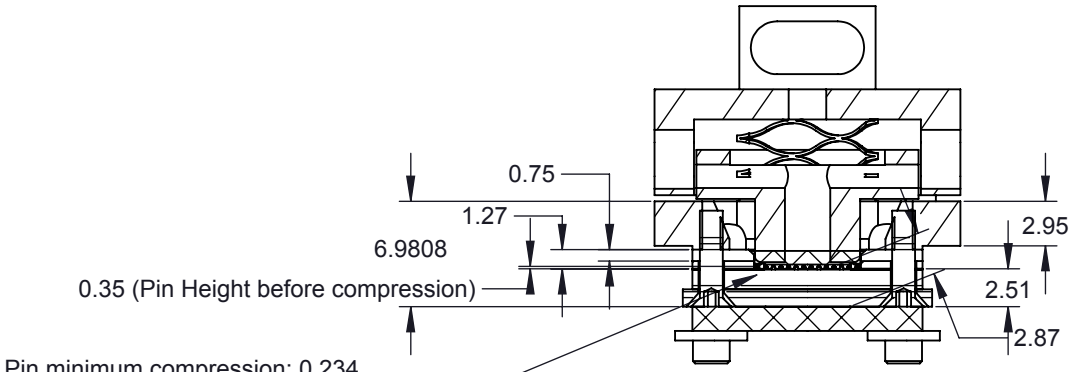
TOP VIEW



Detail J
Scale 4:1



BOTTOM VIEW



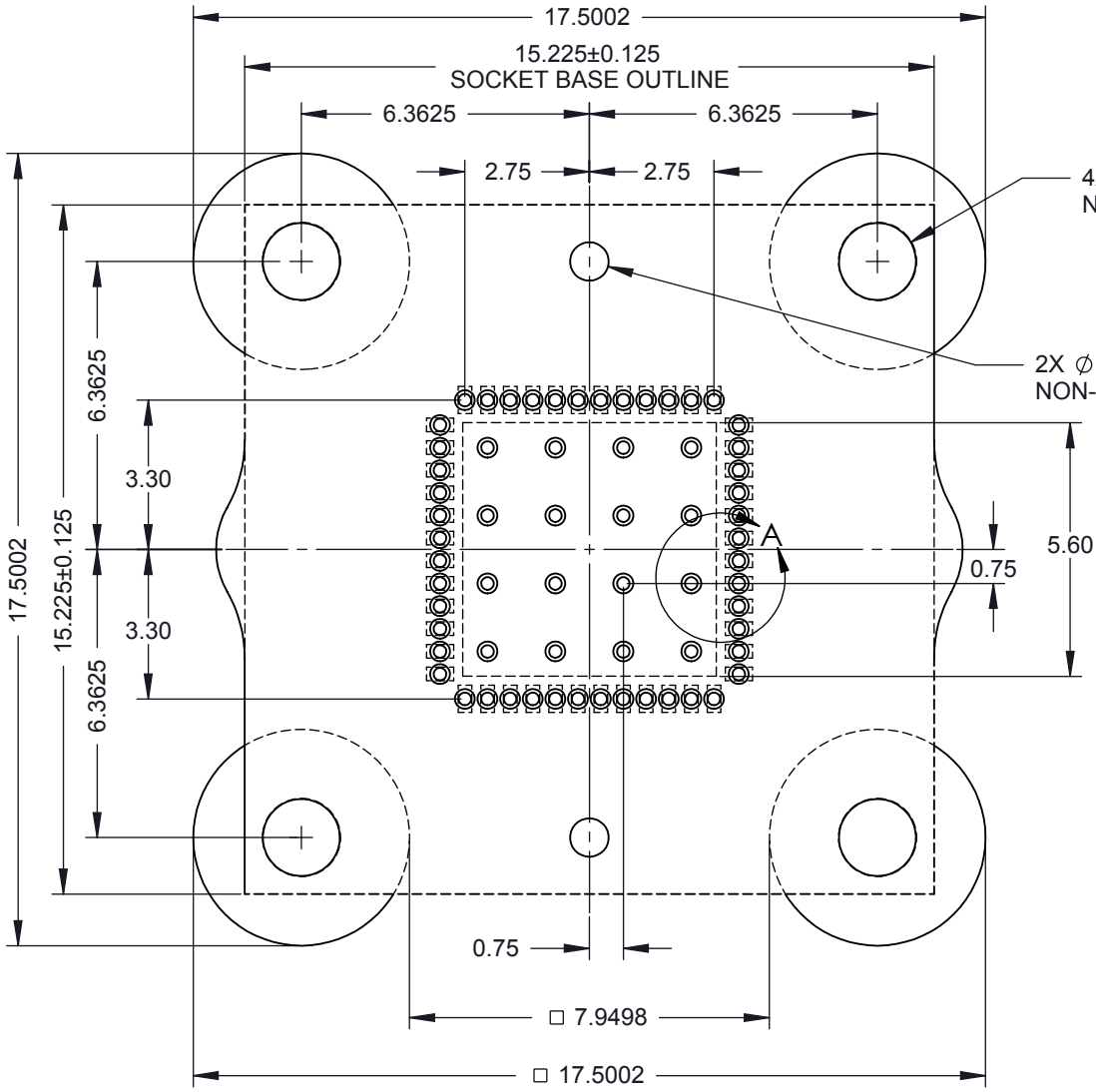
SECTION B-B

Description: Cavity Detail

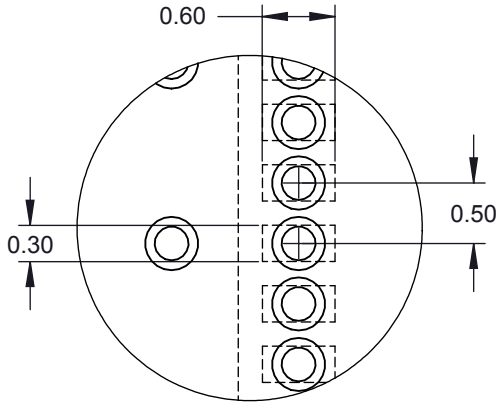
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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

CBT-QFN-7019 Drawing	Material: N/A Finish: N/A Weight: 16.29	STATUS: Released	SHEET: 2 OF 5	REV. C
 Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 2:1
		FILE: CBT-QFN-7019 Dwg	DATE: 10/25/2011	



Detail A
Scale 12:1



Description: Recommended PCB layout

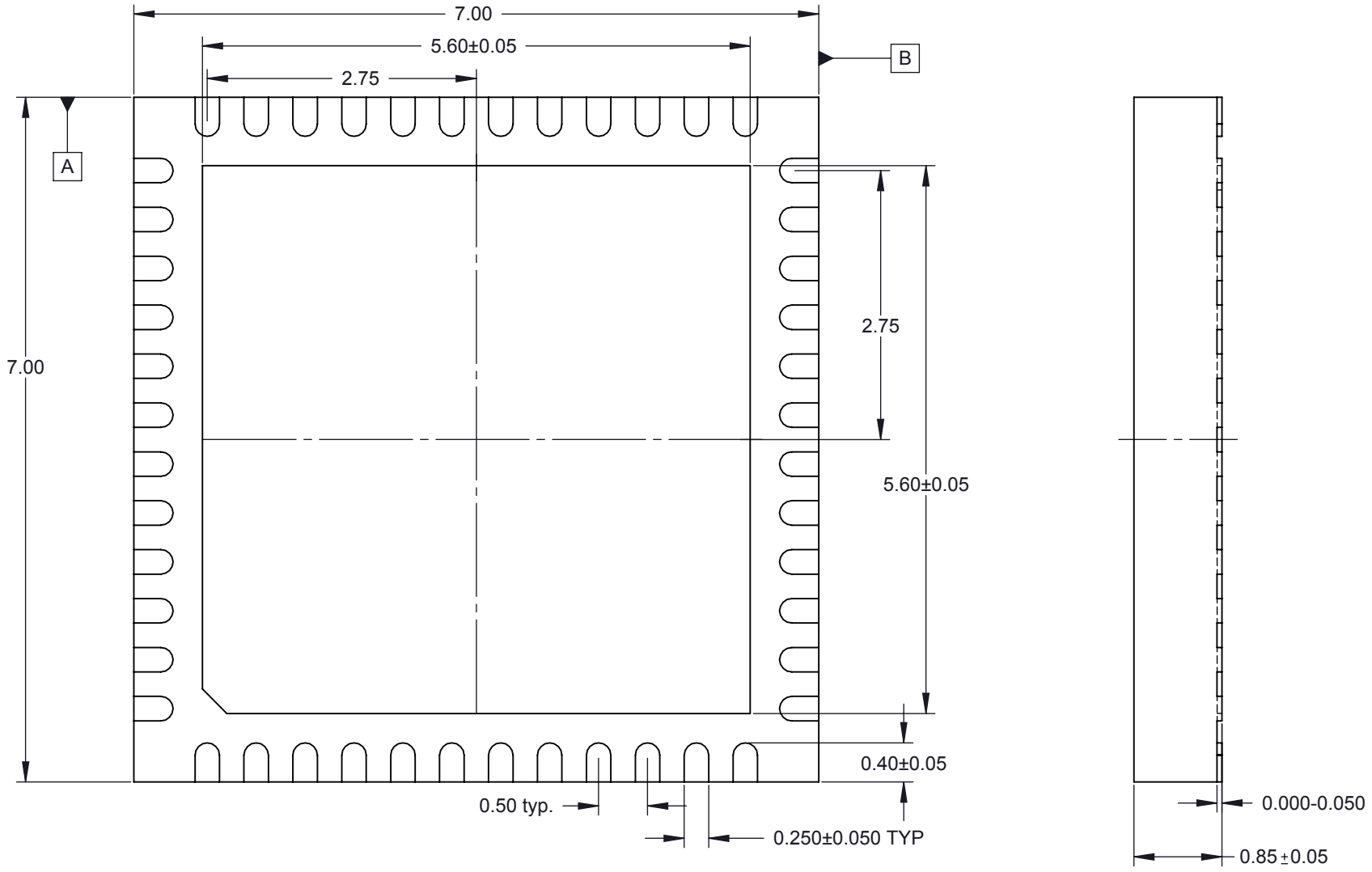
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±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
PCB Pad height: Same or higher than solder mask

CBT-QFN-7019 Drawing	Material: N/A Finish: N/A Weight: 16.29	STATUS: Released	SHEET: 3 OF 5	REV. C
 Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 6:1
		FILE: CBT-QFN-7019 Dwg	DATE: 10/25/2011	

Ironwood Package code: QFN48A



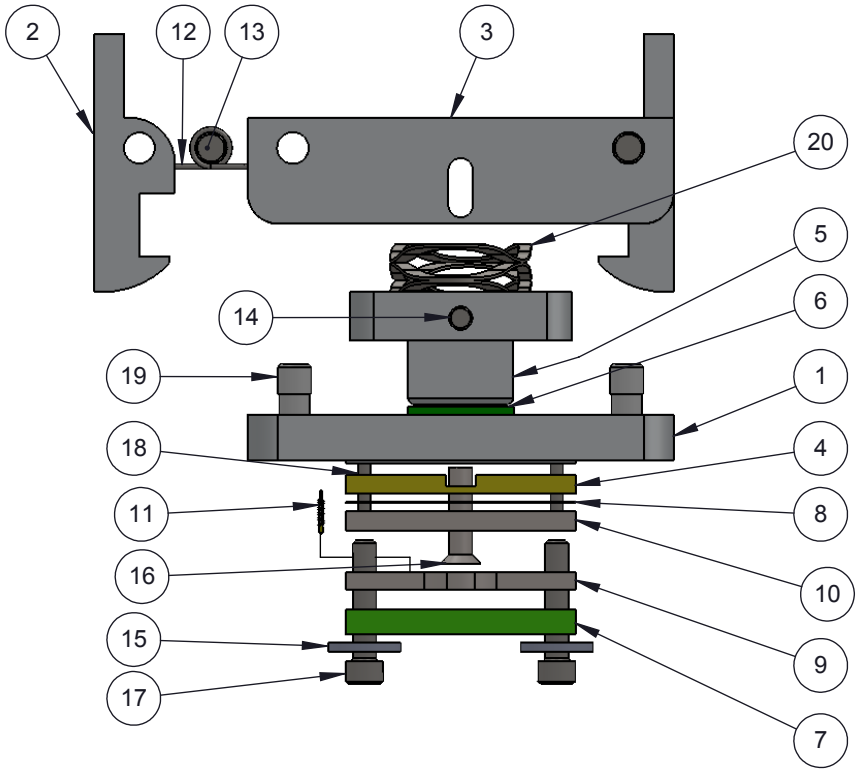
1. Dimensions are in millimeters.

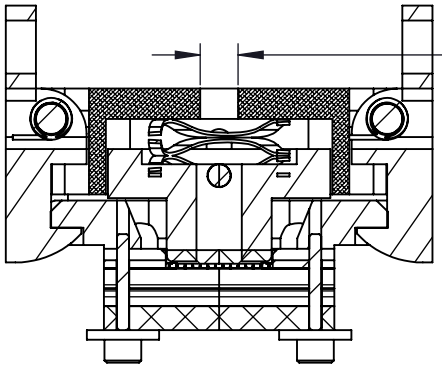
Description: QFN48

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

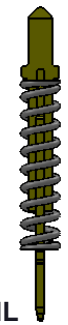
Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

CBT-QFN-7019 Drawing	Material: N/A Finish: N/A Weight: 16.29	STATUS: Released	SHEET: 4 OF 5	REV. C
 Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 16:1
		FILE: CBT-QFN-7019 Dwg	DATE: 10/25/2011	





ITEM NO.	DESCRIPTION	Material
1	CBT double latch Socket Base for up to 10mm QFN	7075-T6 Aluminum Alloy
2	10x10mm clamshell latch	7075-T6 Aluminum Alloy
3	CBT Snap double latch socket lid for up to 10mm IC	7075-T6 Aluminum Alloy
4	IC Guide for 7x7mm IC	Torlon 4203
5	CBT Compression Plate for 7x7mm IC	7075-T6 Aluminum Alloy
6	QFN48A chip	FR4
7	Customer's target PCB for 7x7mm 0.5mm pitch QFN48	High Temp FR4
8	CBT Pin Orientation Guide for 7x7mm 0.5mm pitch QFN48	Kapton Polyimide
9	CBT Bottom Guide for 7x7mm, 0.5mm pitch QFN48	PEEK Ceramic filled
10	CBT Top Guide for 7x7mm 0.5mm pitch QFN48	PEEK Ceramic filled
11	SBT-LGA/QFN Pogo Pin, 0.5mm-0.8mm	Contact Mtrl: BeCu, Au Plated over Ni
12	Torsion Spring, 180 0.109" OD, Ccw/Rh	Steel Music Wire
13	Dowel Pin, M2 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
14	Dowel Pin, M1.5 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
15	Washer, #0 x .025", Nylon	Nylon 6/6
16	#0-80 X .25"LG, FLAT HEAD SCREW, PEEK	PEEK unfilled
17	#0-80 X .313 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
18	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
19	Dowel pin	Stainless Steel (303)
20	Wave Spring 0.375"OD 0.15" ln 100lbs/in	Steel Music Wire



PIN DETAIL

Rev	Date	Initials	Description
A	10/25/12	SH	Original
B	4/23/13	GL	Remove P6950, Add P11919
C	07/24/15	DH	Changed IC Guide material from Ultem to Torlon, and updated PCB Layout page

Description: Skt, and Pin Det

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

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

CBT-QFN-7019 Drawing

Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A
Finish: N/A
Weight: 16.29

STATUS: Released	SHEET: 5 OF 5	REV. C
ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 1:1
FILE: CBT-QFN-7019 Dwg	DATE: 10/25/2011	