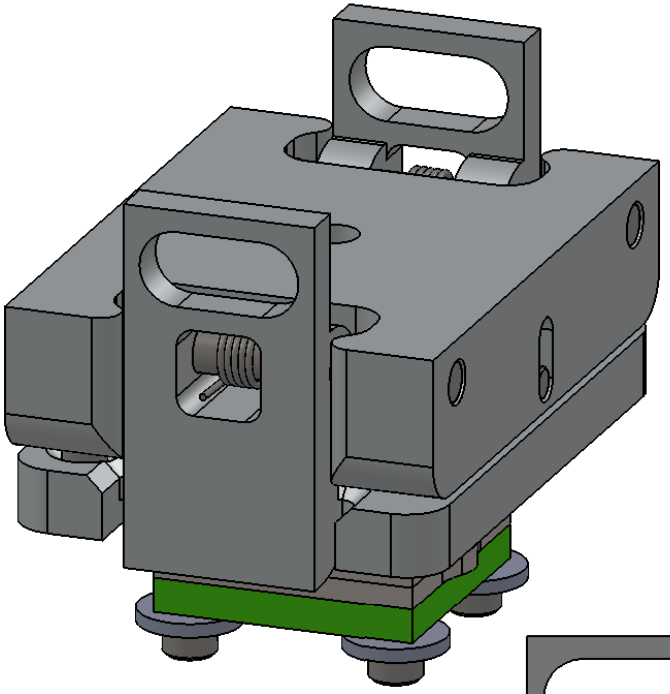
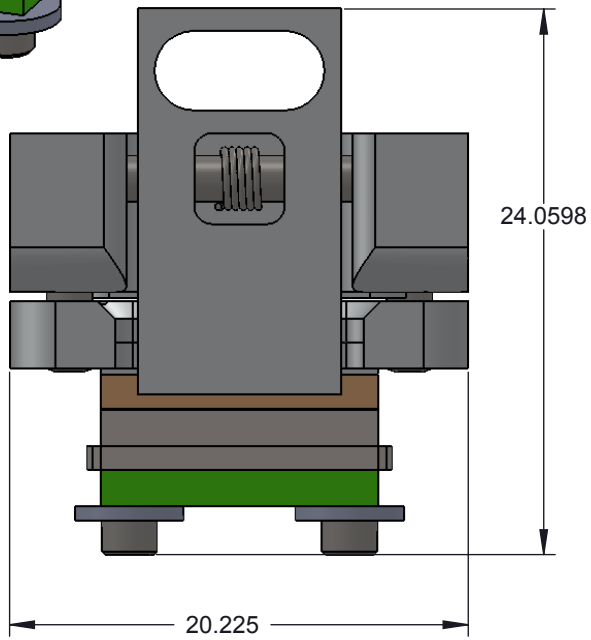
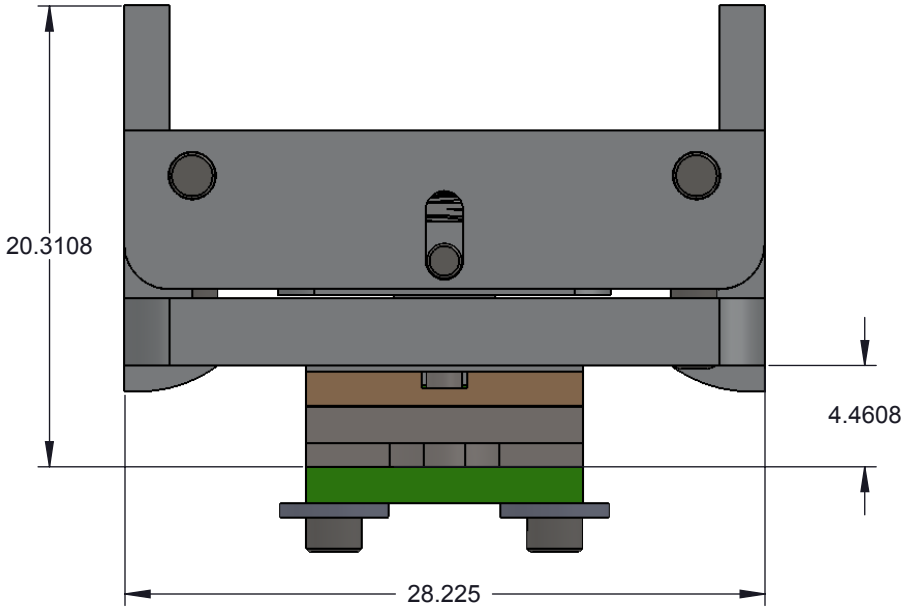
CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



Features

- Wide temperature range (-55C to +155C).
- High current capability (up to 2.2A).
- 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.



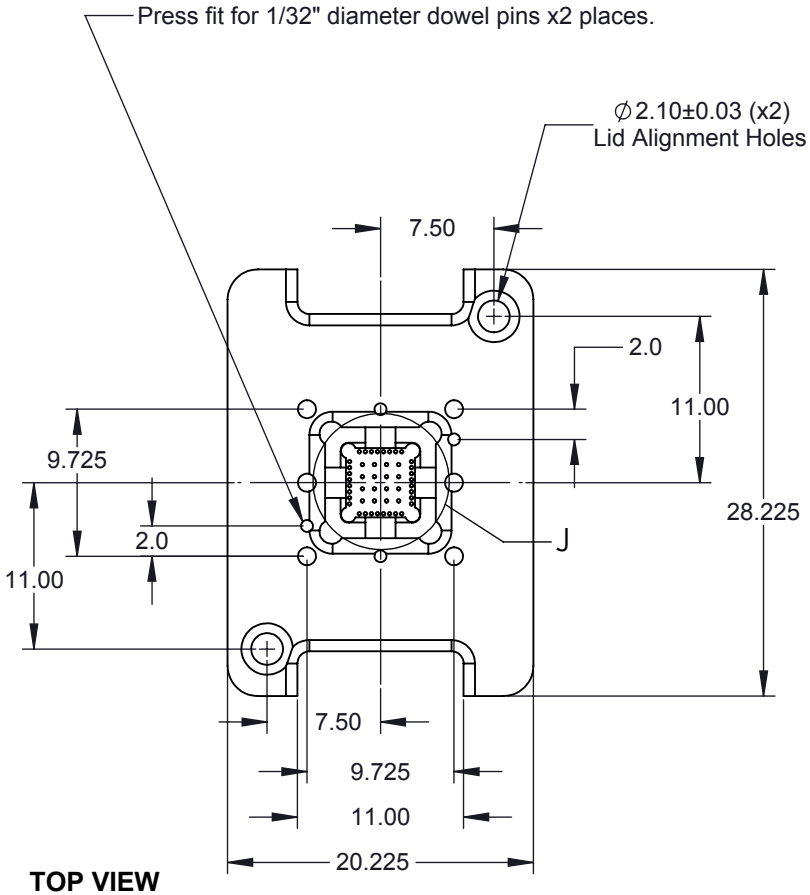


Description: CBT socket for 4.5mm x 4.5mm QFN

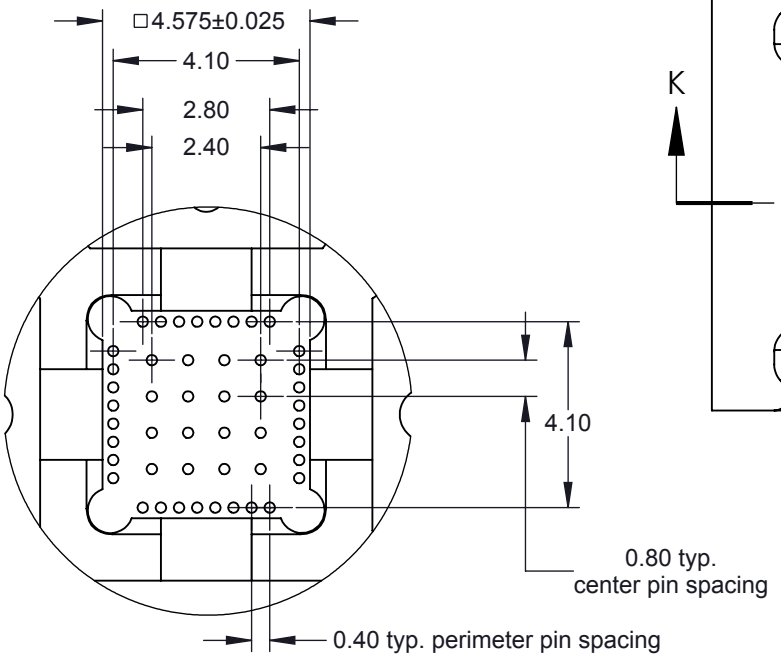
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

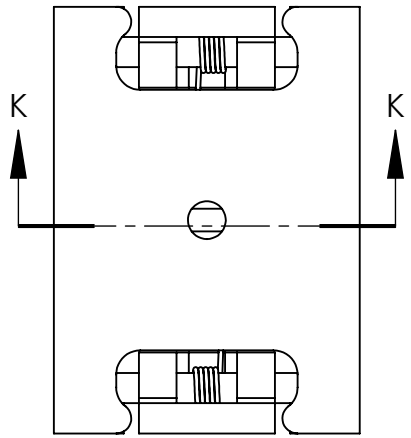
CBT-QFN-7008 Drawing	Material: N/A Finish: N/A Weight: 15.91	STATUS: Released	SHEET: 1 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: CBT-QFN-7008 Dwg	DATE: 3/21/2011	

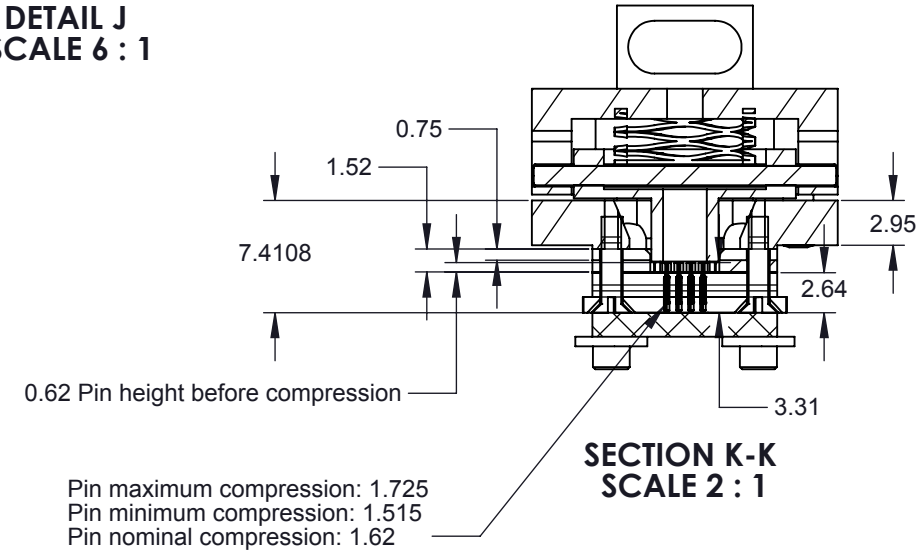


TOP VIEW



DETAIL J
SCALE 6 : 1





SECTION K-K
SCALE 2 : 1

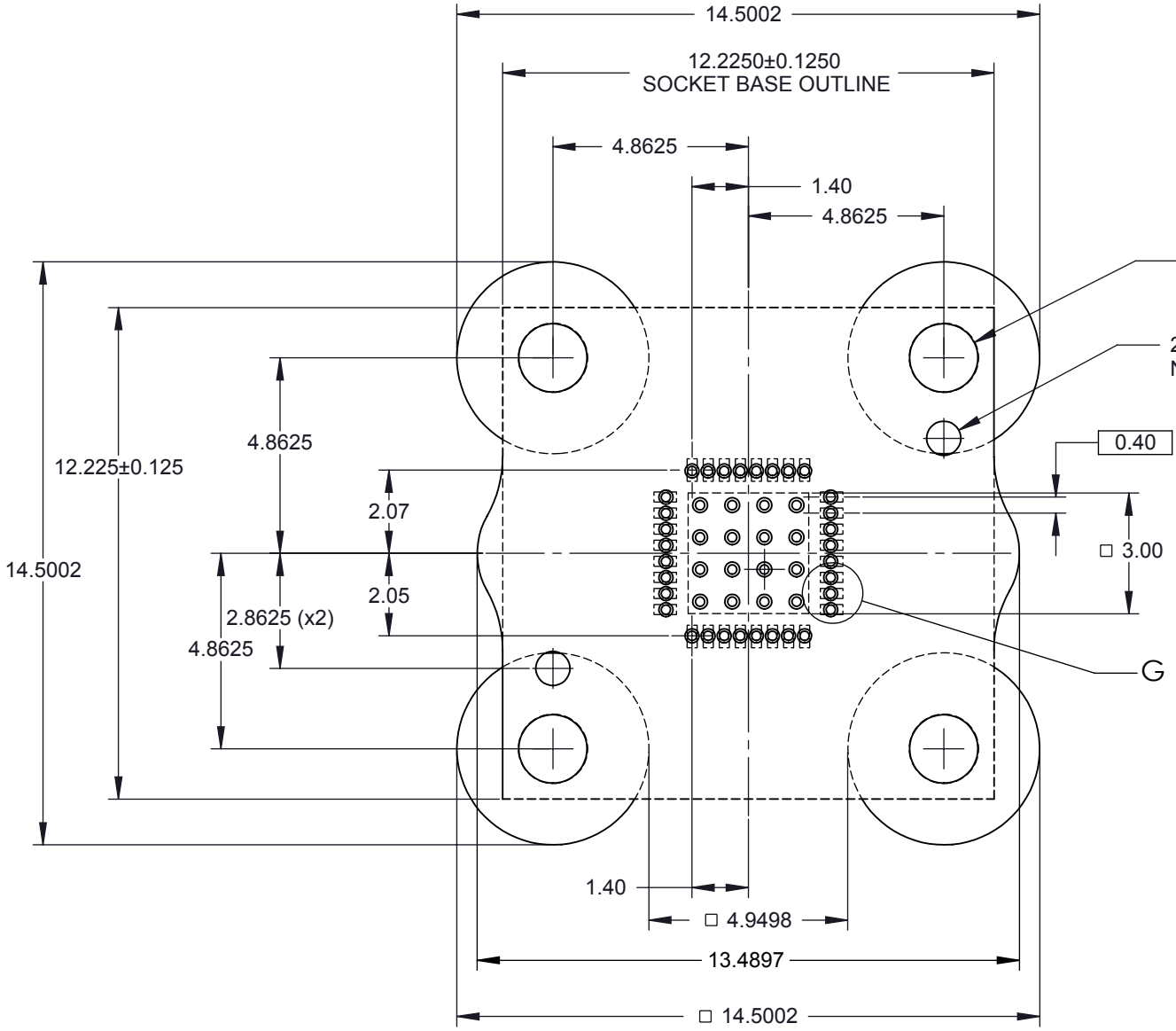
Pin maximum compression: 1.725
Pin minimum compression: 1.515
Pin nominal compression: 1.62

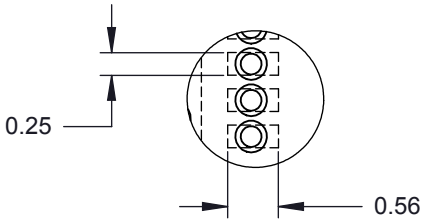
Description: Cavity Detail

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-7008 Drawing	Material: N/A Finish: N/A Weight: 15.91	STATUS: Released	SHEET: 2 OF 5	REV. B
 Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 2:1
		FILE: CBT-QFN-7008 Dwg	DATE: 3/21/2011	





DETAIL G
SCALE 12 : 1

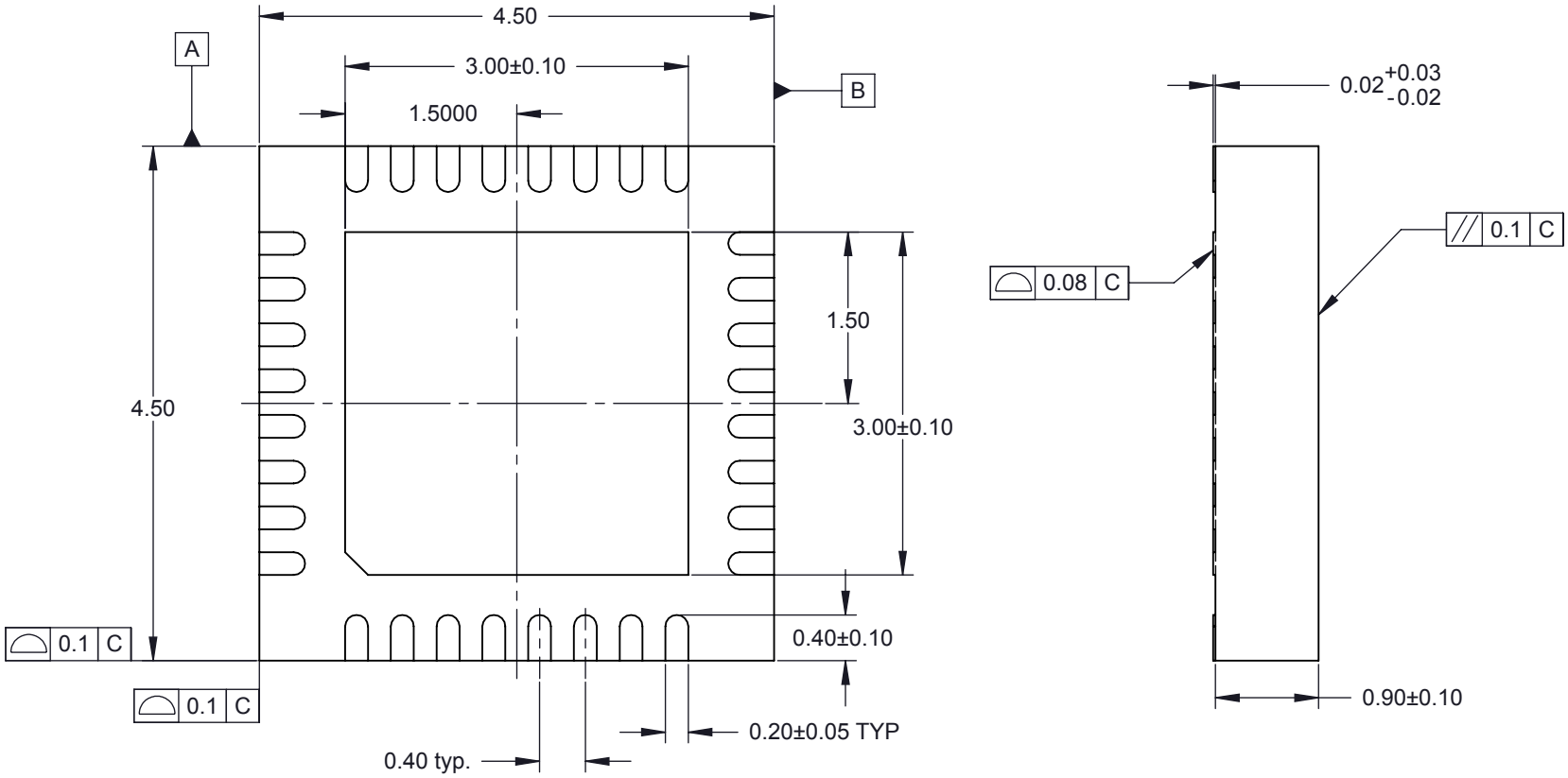
Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish
PCB Pad height: Same or higher than solder mask

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.

CBT-QFN-7008 Drawing	Material: N/A Finish: N/A Weight: 15.91	STATUS: Released	SHEET: 3 OF 5	REV. B
 Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 6:1
		FILE: CBT-QFN-7008 Dwg	DATE: 3/21/2011	



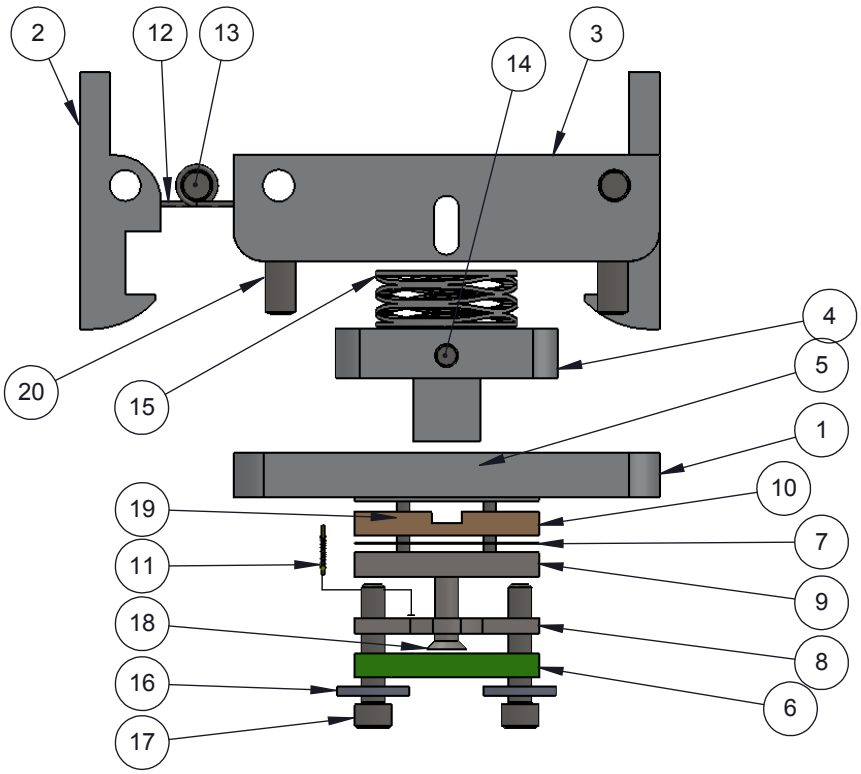
1. Dimensions are in millimeters.

Description: QFN32

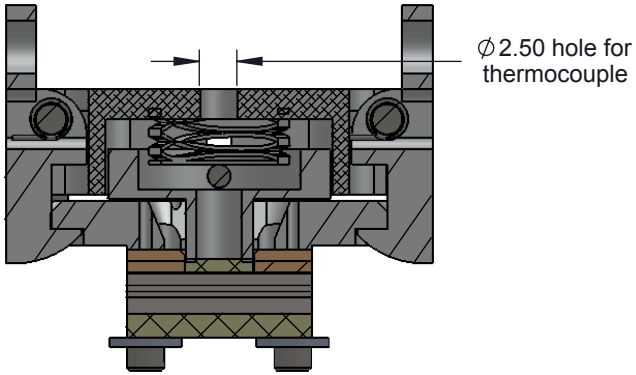
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

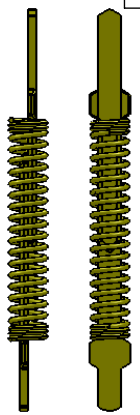
Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

CBT-QFN-7008 Drawing				
 Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.91	STATUS: Released	SHEET: 4 OF 5	REV. B
		ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 16:1
		FILE: CBT-QFN-7008 Dwg	DATE: 3/21/2011	



ITEM NO.	DESCRIPTION	Material
1	CBT double latch Socket Base for up to 7mm 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	CBT Compression Plate for 4.5x4.5mm IC	7075-T6 Aluminum Alloy
5	Customer's chip QFN32 4.5mm x4.5mm 0.4mm pitch	High Temp FR4
6	Customer's target PCB for 4.5mm x 4.5mm, 0.4mm pitch QFN32	High Temp FR4
7	CBT Pin Orientation Guide for 4.5mm x 4.5mm, 0.4mm pitch QFN32	Kapton Polyimide
8	CBT Bottom Guide for 4.5mm x 4.5mm 0.4mm pitch QFN32	PEEK Ceramic filled
9	CBT Top Guide for 4.5mm x 4.5mm, 0.4mm pitch QFN32	PEEK Ceramic filled
10	IC Guide for 4.5mm x 4.5mm IC	Ultem 1000
11	SBT Pin, 0.4mm pitch	N/A
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	Wave Spring 0.375" OD, 0.15" ID, 62 lbs/in	Stainless Steel (303)
16	Washer, #0 x .025", Nylon	Nylon 6/6
17	#0-80 X .313 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
18	#0-80X0.25", 90 deg., head pin guide screw, Peek material	PEEK unfilled
19	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
20	Dowel Pin M2x6mm	Stainless Steel (18-8)





PIN DETAIL
16:1 Scale

Description: Skt, Insulation Plate, 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.

Rev	Date	Initials	Description
A	03/21/11	MR	Original
B	05/27/15	DH	Updated PCB layout page

CBT-QFN-7008 Drawing	Material: N/A Finish: N/A Weight: 15.91	STATUS: Released	SHEET: 5 OF 5	REV. B
 Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 2:1
		FILE: CBT-QFN-7008 Dwg	DATE: 3/21/2011	