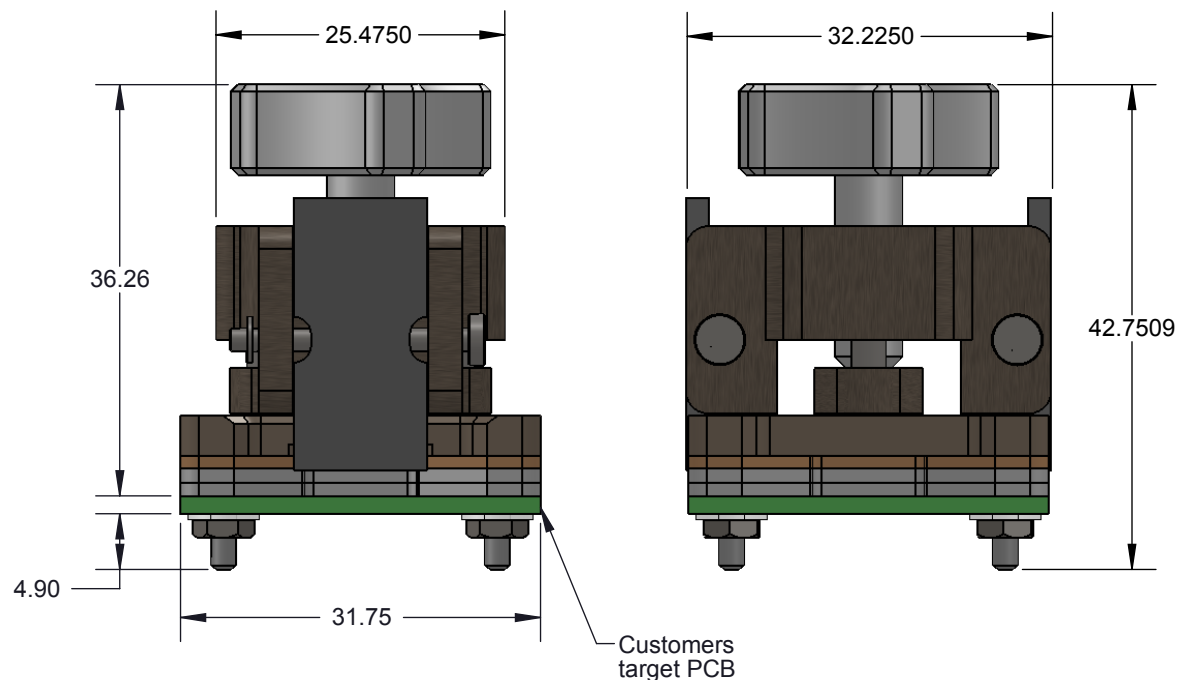
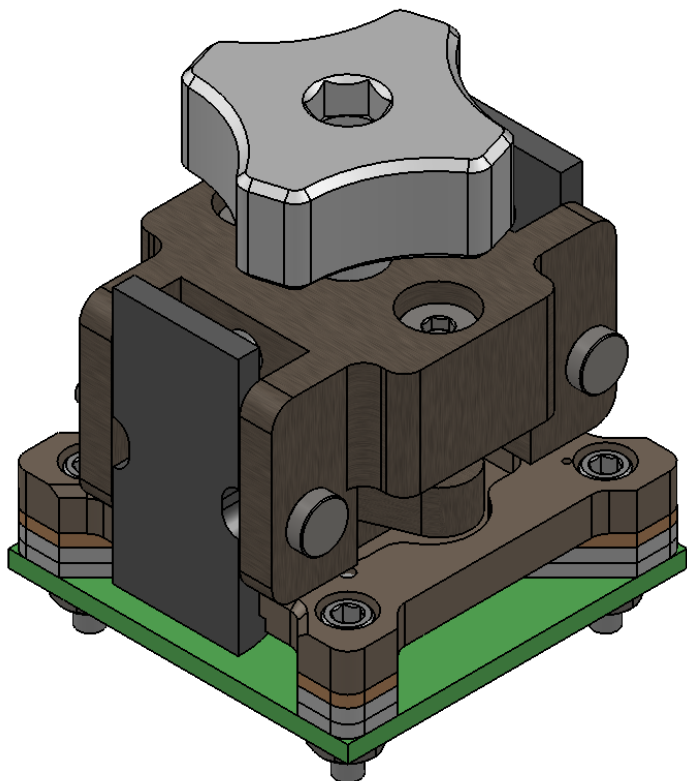


# CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

## Features


- Wide temperature range (-55C to +180C)
- High current capability (up to 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



## Description: Socket Spec

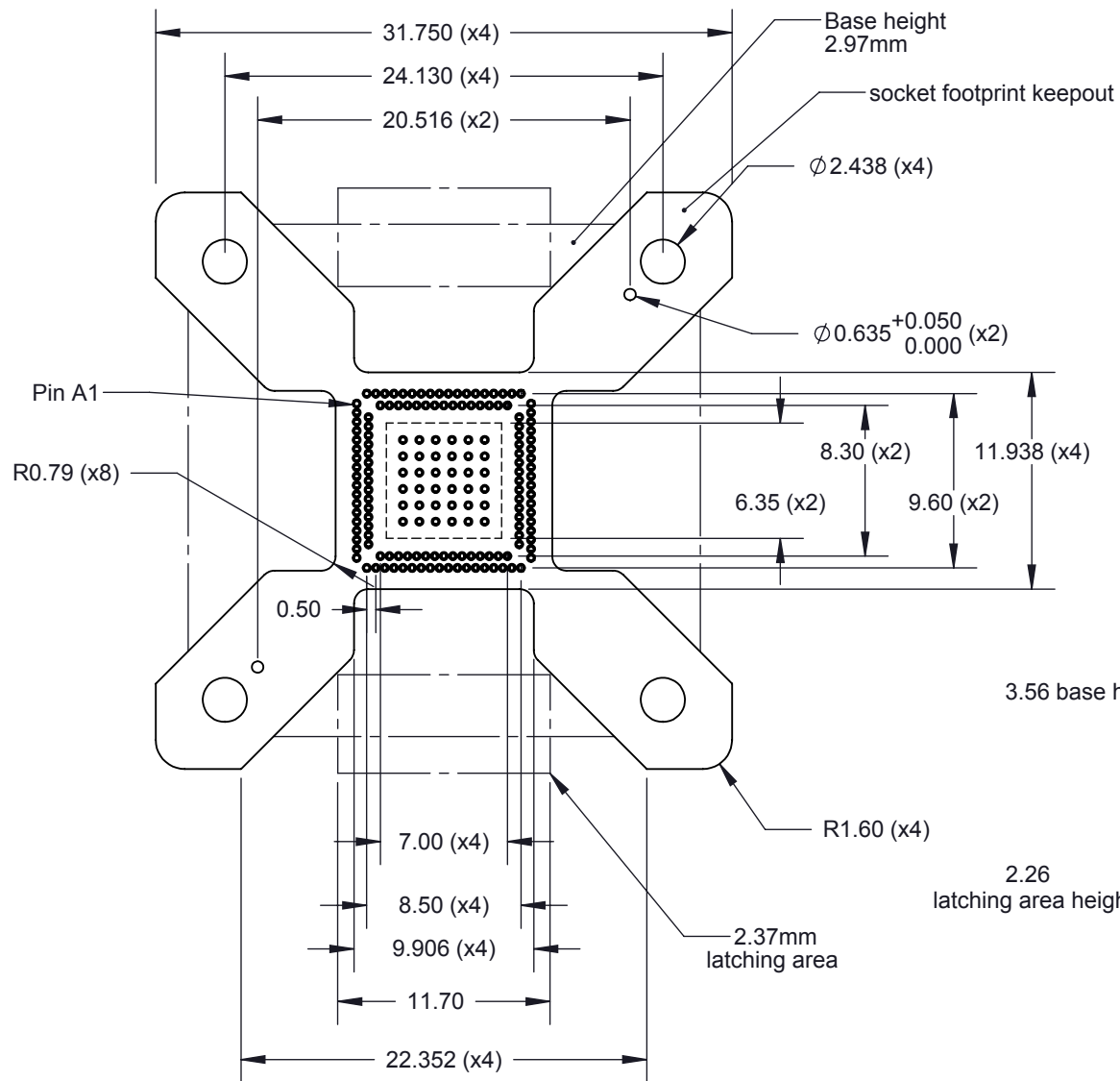
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

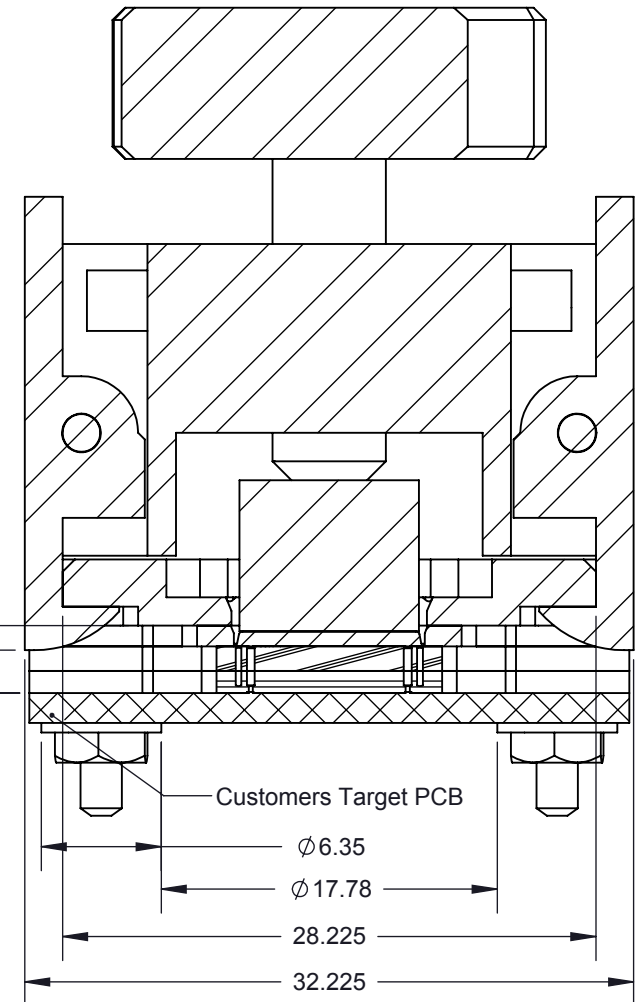
<b>CBT-QFN-7004 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 <a href="http://www.ironwoodelectronics.com">www.ironwoodelectronics.com</a>	Material: N/A Finish: N/A Weight: 44.79	STATUS: Released	SHEET: 1 OF 4	REV. A
		DRAWN BY: D. Hauer	SCALE: 3:2	
		FILE: CBT-QFN-7004 Dwg	DATE: 9/27/2010	

Package Code: BCC132A

**Note: QFN pattern is symmetrical  
with respect to the mounting holes.**



3.56 base height  
2.26 latching area height




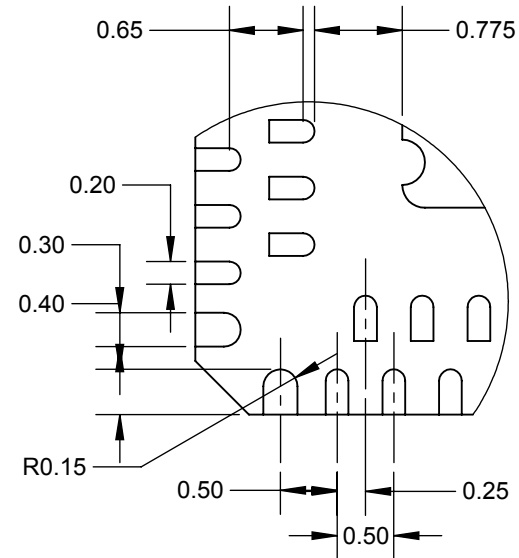
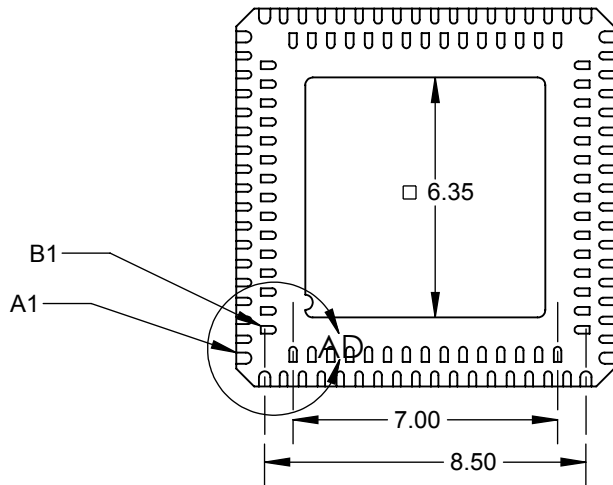
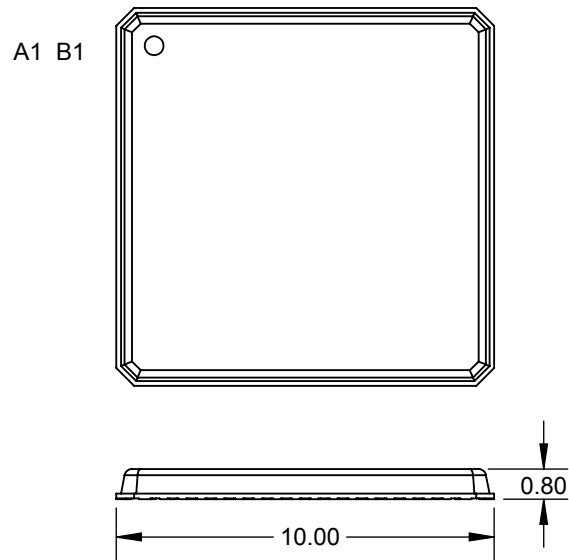
### Description: Recommended Layout

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.

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

<b>CBT-QFN-7004 Drawing</b>		Material: N/A Finish: N/A Weight: 44.79	STATUS: Released	SHEET: 2 OF 4	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		DRAWN BY: D. Hauer	SCALE: 2.5:1	
			FILE: CBT-QFN-7004 Dwg	DATE: 9/27/2010	




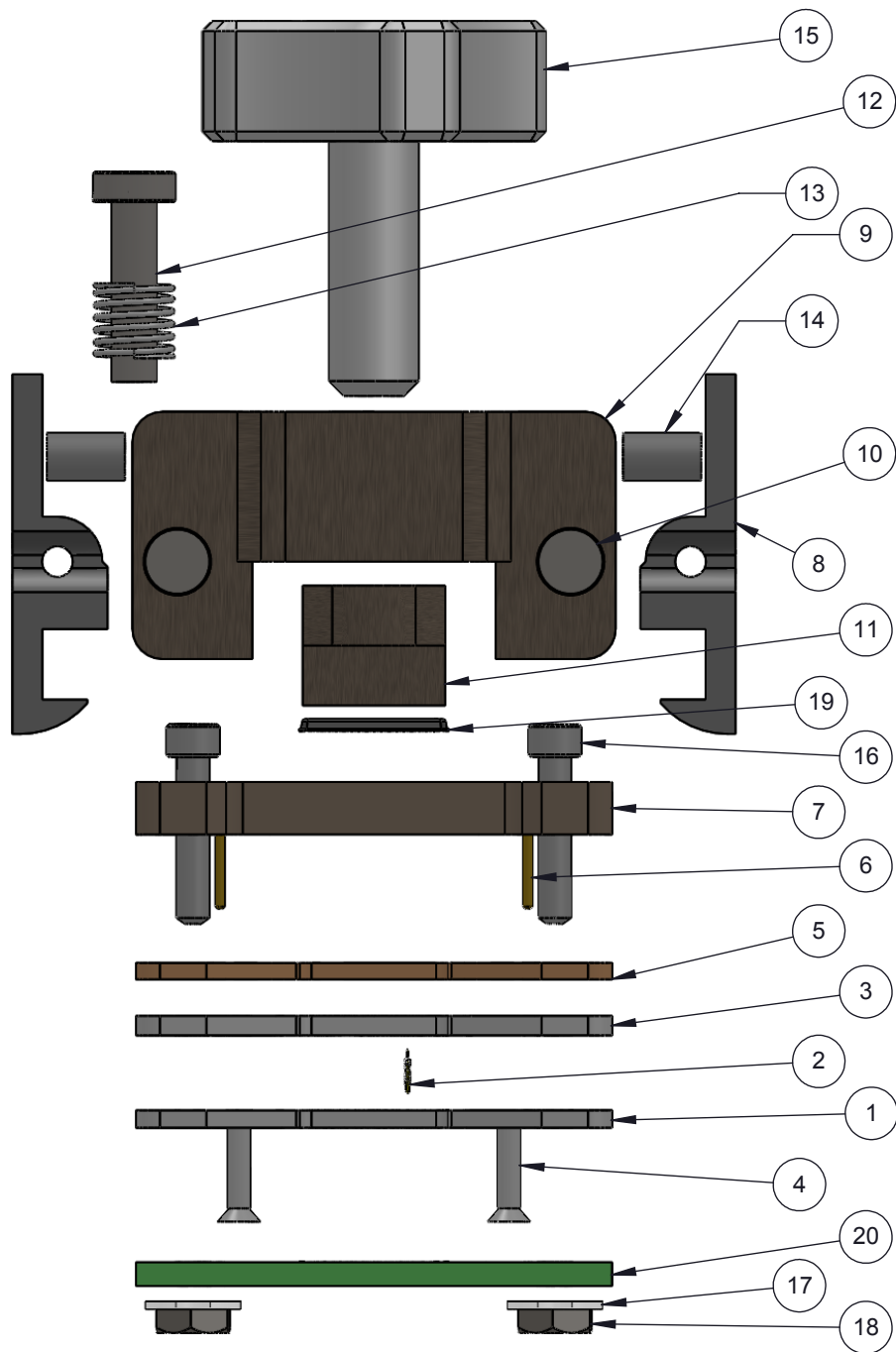
**DETAIL AD**  
**SCALE 15 : 1**

## Description: QFN Spec

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.

 <b>CBT-QFN-7004 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 <a href="http://www.ironwoodelectronics.com">www.ironwoodelectronics.com</a>	Material: N/A Finish: N/A Weight: 44.79	STATUS: Released	SHEET: 3 OF 4	REV. A
		DRAWN BY: D. Hauer	SCALE: 5:1	
		FILE: CBT-QFN-7004 Dwg	DATE: 9/27/2010	



ITEM NO.	DESCRIPTION	Material
1	CBT-QFN132 bottom pogo pin guide Custom	PEEK Ceramic filled
2	SBT-LGA/QFN Pogo Pin, 0.5mm-0.8mm	Contact Mtrl: BeCu, Au Plated over Ni
3	CBT-QFN132 top pogo pin guide Custom	Ultem 1000
4	#0-80 x .25 LG, Flat Head Machine Screw	Stainless Steel (18-8)
5	CBT-QFN132 10mm IC guide custom	N/A
6	Dowel pin 0.025"x 6mm long	Brass
7	CBT-QFN Base for 10mm x 10mm IC custom	7075-T6 Aluminum Alloy
8	Latch 6- 10mm Ni plated	7075-T6 Aluminum Alloy
9	Nickel plated Lid double latch for 10mm IC	7075-T6 Aluminum Alloy
10	Hinge Pin and Snap Ring, 2mm OD, 19mm long, SS	Stainless Steel (ferritic)
11	Nickel plated Compression plate for 10mm IC	7075-T6 Aluminum Alloy
12	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
13	Spring Clamshell lid assembly	Steel Music Wire
14	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
15	M6x1 fluted knob compression screw, Ni plated	7075-T6 Aluminum Alloy
16	2-56 x 7/16" socket head cap screw SS 18-8	N/A
17	Washer, #2 x .04", Nylon	N/A
18	Nut, #2-56 x 1/16", SS	N/A
19	IC QFN 132	High Temp FR4
20	Target PCB	Ultem 1000

#### Description: CBT-QFN132 Socket, 10x10mm, 0.5mm pitch, custom

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

Tolerances: diameters  $\pm 0.03\text{mm}$  [ $\pm 0.001"$ ], PCB perimeters  $\pm 0.13\text{mm}$  [ $\pm 0.005"$ ], PCB thicknesses  $\pm 0.18\text{mm}$  [ $\pm 0.007"$ ], pitches (from true position)  $\pm 0.08\text{mm}$  [ $\pm 0.003"$ ], all other tolerances  $\pm 0.13\text{mm}$  [ $\pm 0.005"$ ] unless stated otherwise. Materials and specifications are subject to change without notice.

#### CBT-QFN-7004 Drawing



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

WEIGHT: 44.79  
MATERIAL: N/A  
FINISH: N/A

STATUS: Released

DRAWN BY: D. Hauer

File: CBT-QFN-7004 Dwg

SHEET 4 OF 4

SCALE: 2:1

DATE: 9/27/2010

REV. A