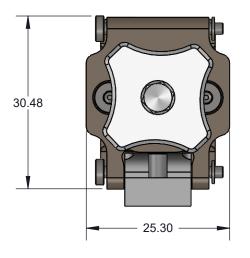
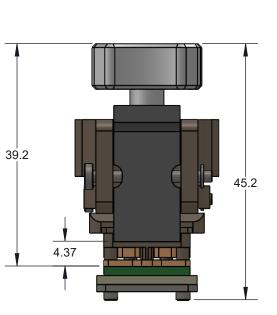
# CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR **BURN-IN AND TEST APPLICATIONS**

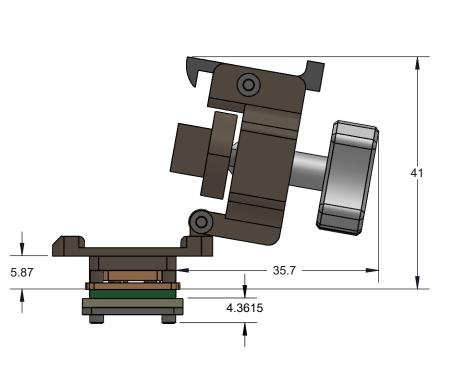


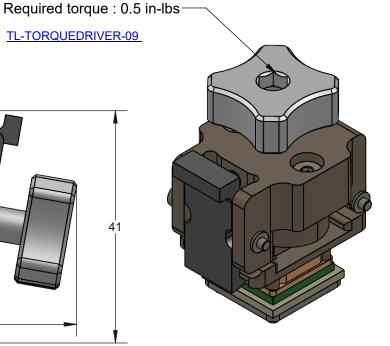
#### **FEATURES:**

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

**TL-TORQUEDRIVER-09** 







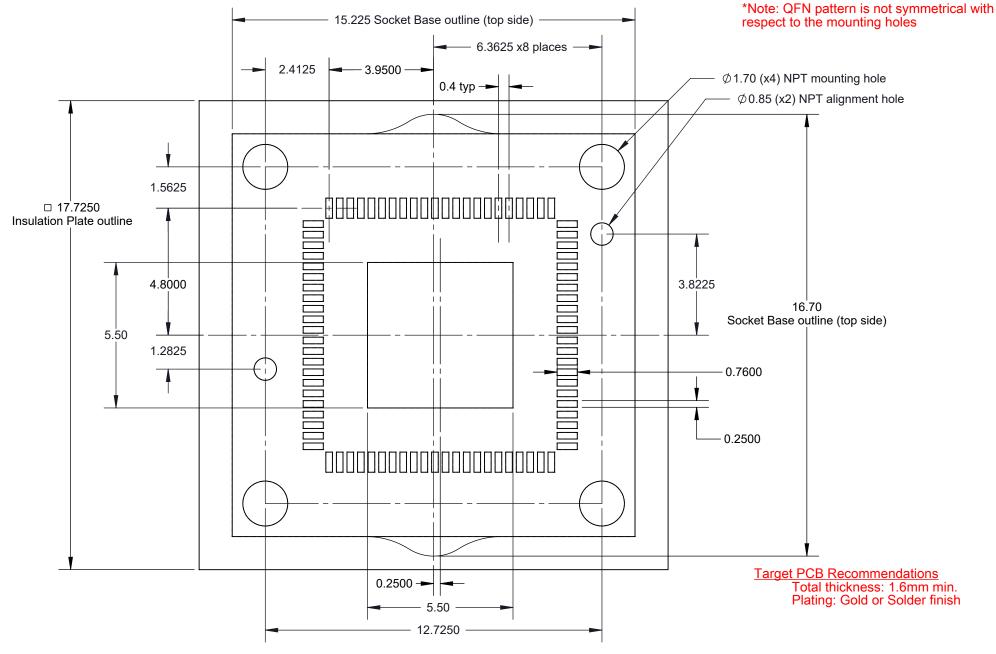
## Description: CBT-QFN88 10mm 0.4mm pitch 10 x 10 x 0.9mm

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) ±0.0254mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

	CE	CBT-QFN-7012 Drawing		
Ì		Ironwood Electronics, Inc		
		Tele: (800) 404-0204		

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com Material: N/A Finish: N/A Weight: 43.48

STATUS: Released	SHEET: 1 OF 6	REV. D
ENG:	DRAWN BY: S. Huang	SCALE: 3:2
FILE: CBT-QFN-7012 Dwg	DATE: 11/10/10	



#### **Description: Recommended PCB Layout**

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

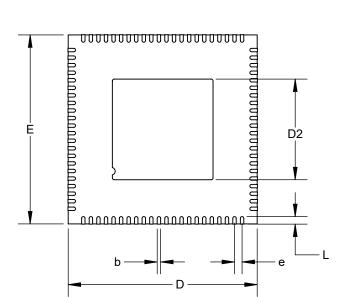
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

CE	BT-QFN-7012 Drawing
A	Ironwood Electronics, Inc. Tele: (800) 404-0204
	www.ironwoodélectronics.com

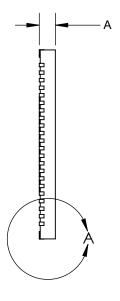
Material: N/A Finish: N/A Weight: 43.48

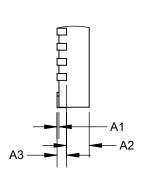
STATUS: Released	SHEET: 2 OF 6	REV. D
ENG:	DRAWN BY: S. Huang	SCALE: 7:1
FILE: CBT-QFN-7012 Dwg	DATE: 11/10/10	

### Side view Ironwood Package Code: QFN88A



**Bottom view** 





DETAIL A SCALE 10:1

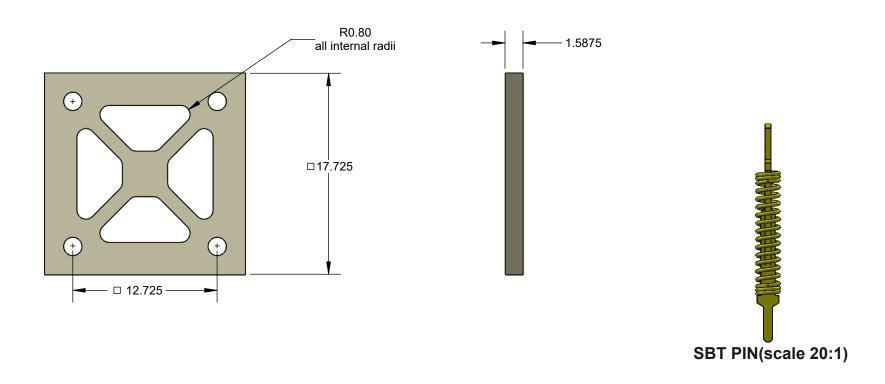
DIM	Minimum	Maximum	
Α		0.90	
A1		0.05	
A2		0.70	
A3	0.2	20 REF	
b	0.13	0.23	
D 10		.0 BSC	
D2	5.10	5.50	
Е	10.0 BSC		
E2	5.10	5.50	
L	0.30	0.50	
e 0		4 BSC	
PIN COUN	Γ	88 + center pad	

#### **Description: Compatible QFN**

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.

CBT-QFN-7012 Drawing	Ironwood Electronics, Inc. Tele: (800) 404-0204  Finish: N/A Weight: 43.48	STATUS: Released	SHEET: 3 OF 6	REV. D
		ENG:	DRAWN BY: S. Huang	SCALE: 5:1
		FILE: CBT-QFN-7012 Dwg	DATE: 11/10/10	

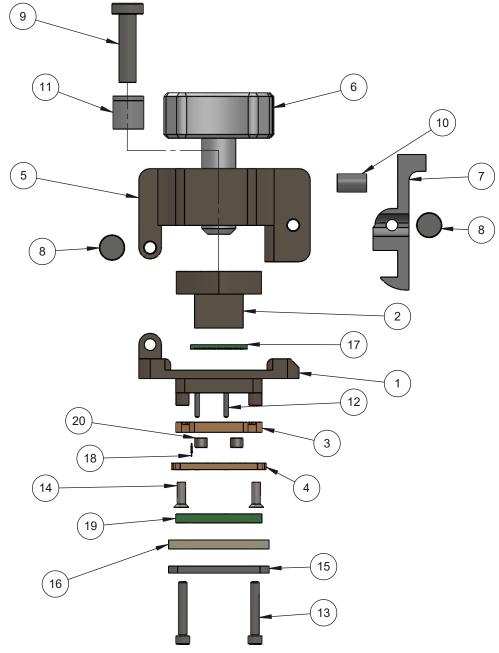


#### Description: Insulation Plate, Pin detail

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.

CBT-QFN-7012 Drawing	Material: N/A	STATUS: Released	SHEET: 4 OF 6	REV. D
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 43.48	ENG:	DRAWN BY: S. Huang	SCALE: 3:1
www.ironwoodelectronics.com	Weight. 40.40	FILE: CBT-QFN-7012 Dwg	DATE: 11/10/10	



#### Description: Socket Assy, detail

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.

ITEM NO.	DESCRIPTION	Material	
1	CBT Socket Base 10mm	7075-T6 Aluminum Alloy	
2	CBT Compression Plate 10mm IC	7075-T6 Aluminum Alloy	
3	QFN88A SBT Top spring pin guide 10mm 0.4mm pitch	Semitron MDS 100	
4	QFN88A SBT Bottom spring pin guide 10mm 0.4mm pitch	Semitron MDS 100	
5	Clam Shell Socket Lid 10mm IC	7075-T6 Aluminum Alloy	
6	M6x1 fluted knob compression screw, Ni plated	7075-T6 Aluminum Alloy	
7	Z latch; 2mm, 11.70x24.00x9.35; 3.35x9.20	7075-T6 Aluminum Alloy	
8	Hinge Pin and Snap Ring, 2mm OD, 19mm long, SS	Stainless Steel (ferritic)	
9	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel	
10	Precision Compression Spring, Zinc- Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire	
11	Spring Clamshell lid assembly	Steel Music Wire	
12	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)	
13	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel	
14	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled	
15	Backing Plate 10mm IC 1.25mm thick, Stainless Steel	Stainless Steel	
16 Insulation Plate		FR5 / G11 natural color	
17	IC, QFN88A 10 x 10 x 0.9mm	High Temp FR4	
18	Stamped Pin, 0.4mm SBT-LGA/QFN	N/A	
19	Target PCB	High Temp FR4	
20	Floating Guide Spring	Alloy Steel (SS)	

CBT-QFN-7012 I	Drawing
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Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: N/A Finish: N/A Weight: 43.48

STATUS: Released	SHEET: 5 OF 6	REV. D
ENG:	DRAWN BY: S. Huang	SCALE: 3:2
FILE: CBT-QFN-7012 Dwg	DATE: 11/10/10	

Rev	Date	Initials	Description
А	11/10/10	SD	Original
В	02/18/14	DH	Changed current rating of pin
С	05/27/15	DH	Updated PCB layout page
D	4/26/19	JV/SH	Replaced SS flat head screws w/ peek (updated for P-P184A) / Update to P- P184AA pin design

#### **Description: Revision History**

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.

CBT-QFN-7012 Drawing	Material:	STATUS: Released	SHEET: 6 OF 6	REV. D
Ironwood Electronics, Inc.	Tele: (800) 404-0204 Weight:	ENG:	DRAWN BY: S. Huang	SCALE: 3:2
		FILE: CBT-QFN-7012 Dwg	DATE: 11/10/10	