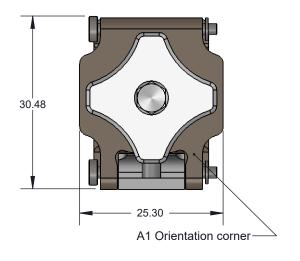
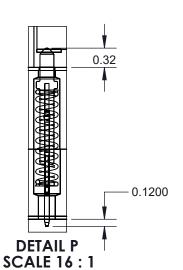
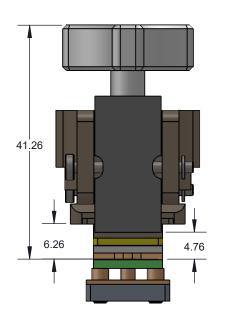
# CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

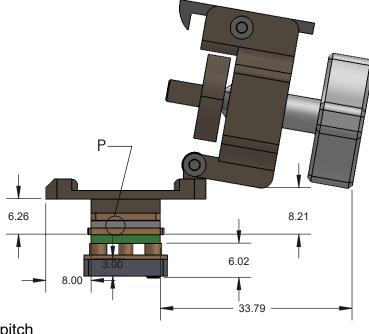


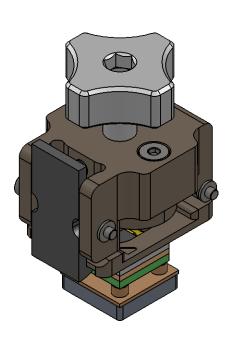


#### **FEATURES:**

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







### Description: CBT-QFN24 4x4mm 0.5mm pitch

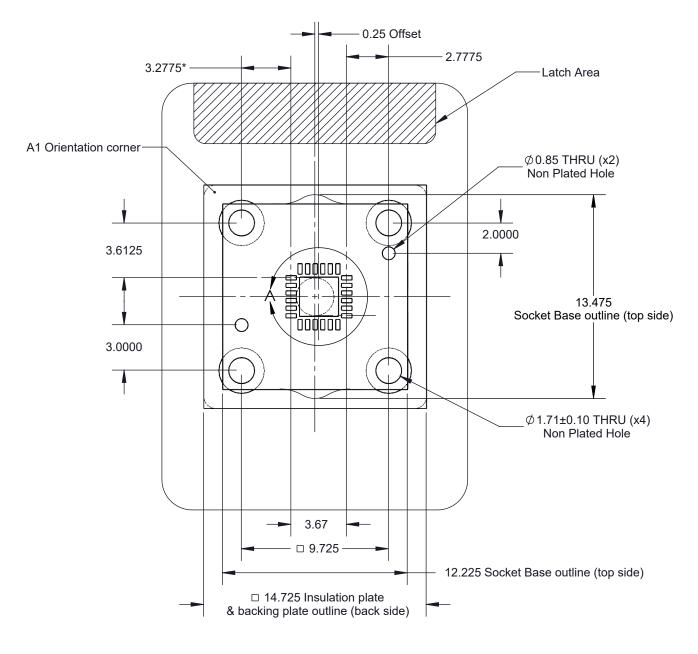
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

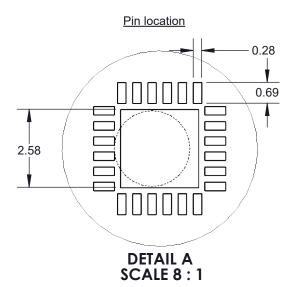
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice

CBT-QFN-7021 Drawing		
	Ironwood Electronics, Inc	
W	Tele: (800) 404-0204 www.ironwoodelectronics.c	

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com Material: N/A Finish: N/A Weight: 39.41

STATUS: Released	SHEET: 1 OF 5	REV. E
ENG:	DRAWN BY: V. Panavala	SCALE: 3:2
FILE: CBT-QFN-7021 Dwg	DATE: 11/10/10	





Target PCB Recommendations Total thickness: 1.6mm min. Plating: Gold or Solder finish

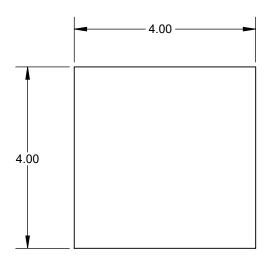
#### **Description: Recommended PCB Layout**

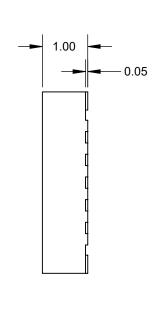
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

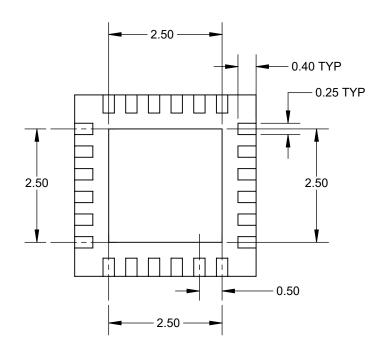
<u>Tolerances</u>; Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

	CBT-QFN-7021 Drawing	Finish: N/A Weight: 39.41	STATUS: Released	SHEET: 2 OF 5	REV. E
a	Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG:	DRAWN BY: V. Panavala	SCALE: 4:1
	www.ironwoodelectronics.com		FILE: CBT-QFN-7021 Dwg	DATE: 11/10/10	

#### Ironwood package code: QFN24G







## **Description: Compatible QFN**

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

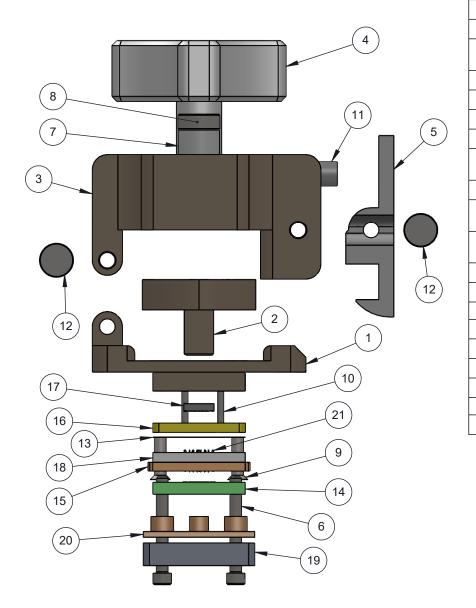
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

CB1	Γ-QFN-7021 Drawing
	Ironwood Electronics, Tele: (800) 404-020 www.ironwoodelectronic

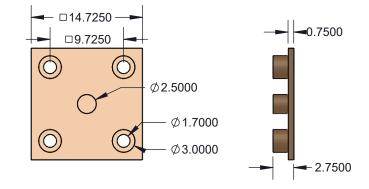
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com

Material: N/A Finish: N/A Weight: 39.41

STATUS: Released	SHEET: 3 OF 5	REV. E
DRAWN BY: V. Panavala	SCALE: 12:1	
FILE: CBT-QFN-7021 Dwg	DATE: 11/10/10	



ITEM NO.	Description	Material
1	CBT Socket base 7mm	7075-T6 Aluminum Alloy
2	CBT Compression Plate 4mm IC	7075-T6 Aluminum Alloy
3	Clam Shell Socket Lid 10mm IC	7075-T6 Aluminum Alloy
4	M6x1 fluted knob compression screw, Ni plated	7075-T6 Aluminum Alloy
5	Latch 6- 10mm Ni plated	7075-T6 Aluminum Alloy
6	#0-80 x 0.5, SH Cap Screw	Alloy Steel
7	Spring Clamshell lid assembly	Steel Music Wire
8	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
9	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
10	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
11	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
Hinge Pin and Snap Ring, 2mm OD, 19mm Stai		Stainless Steel (ferritic)
13	Pin Orientation Guide QFN24	Kapton Polyimide
14	PCB QFN24	Material <not specified=""></not>
15	QFN24 SBT Bottom Guide	Semitron MDS 100
16	IC guide QFN24 4mm sq.	Torlon 4203
17	QFN24 IC	Material <not specified=""></not>
18	QFN24 SBT Top Guide	PEEK Ceramic filled
19	Clamshell Backing Plate, 7mm IC 3mm Thick	7075-T6 Aluminum Alloy
20	Insulation Plate 7mm	Ultem 1000
21	SBT-LGA/QFN Pogo Pin, 0.5mm-0.8mm	Contact Mtrl: BeCu, Au Plated over Ni



#### Description: Socket Assy, detail

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

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#### Insulation plate Specification

	CBT-QFN-7021 Drawing		
		Ironwood Electronics, Inc Tele: (800) 404-0204 www.ironwoodelectronics.co	

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

Material: N/A Finish: N/A Weight: 39.41

STATUS: Released	SHEET: 4 OF 5	REV. E
ENG:	DRAWN BY: V. Panavala	SCALE: 3:2
FILE: CBT-QFN-7021 Dwg	DATE: 11/10/10	

Rev	Date	Initials	Description
Α	04/20/12		Original
B 02/19/14 DH Changed current rating of pin.		Changed current rating of pin.	
С	02/04/15	DH	1) Changed IC guide material from Ultem to Torlon,2) Added material around bottom guide
D	3/16/15	GL	Removed (2) #0-80 x 0.188 Stl. St. screws replaced with (2) #0-80 x 0.188 Peek mat'l screws
Е	4/20/17	MR	added missing page 3 per MAF

#### **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-7021 Drawing	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. E
	Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG:	DRAWN BY: V. Panavala	SCALE: 3:2
	www.ironwoodelectronics.com		FILE: CBT-QFN-7021 Dwg	DATE: 11/10/10	