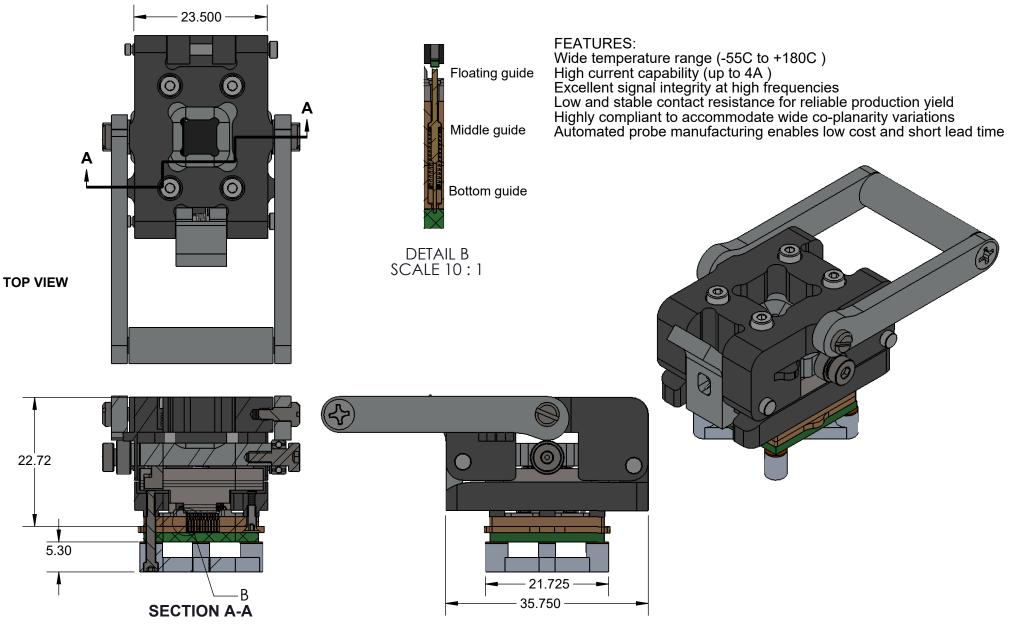
# OPEN TOP LEVER LID CBT-QFE DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



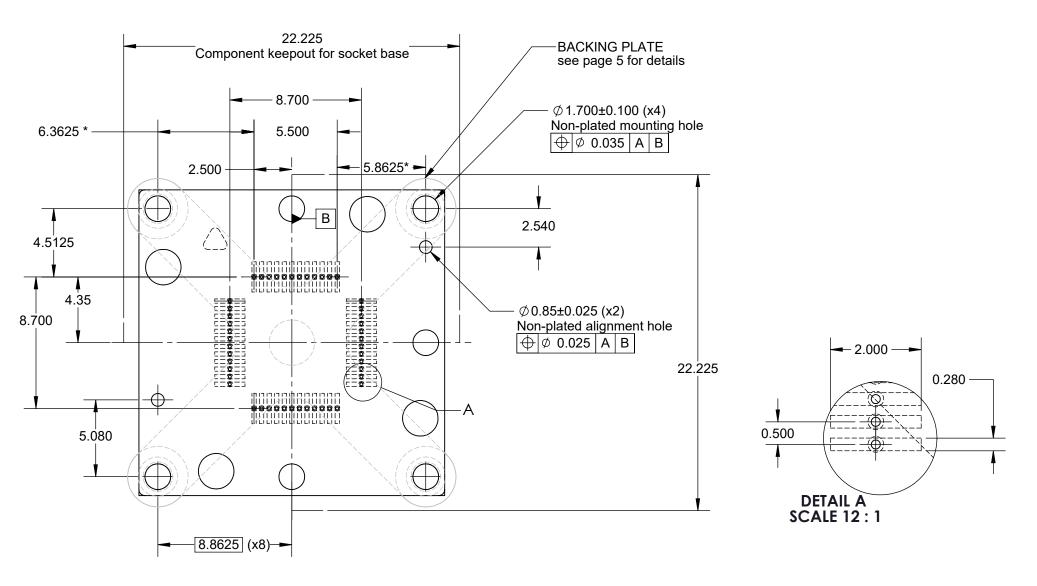
### Description: Open Top CBT socket for 0.5mm pitch 7mm sq 9mm tip-tip 48 pin QFP package

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-QFE-3009 Drawing	T-QFE-3009 Drawing Material: N/A		SHEET: 1 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 44.52	ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 1.5:1
www.ironwoodelectronics.com		FILE: CBT-QFE-3009 Dwg	DATE: 06/02/2016	

## \*Note: IC pattern is not symmetrical with respect to the mounting holes. It is shifted by 0.25mm to the right. of center.



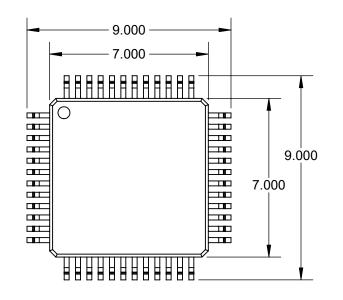
### Description: Recommended PCB Layout

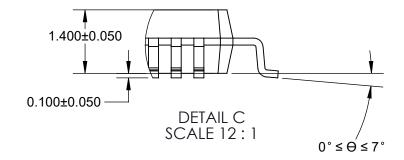
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances:</u> Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

## <u>Target PCB DesignRecommendations:</u> Total thickness: 1.59mm min.

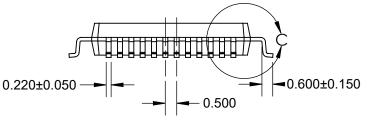
Total thickness: 1.59mm min Plating: Gold or Solder finish

(	CBT-QFE-3009 Drawing		STATUS: Released	SHEET: 2 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 44.52	ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 4:1	
		Weight. 44.02	FILE: CBT-QFE-3009 Dwg	DATE: 06/02/2016	





**TOP VIEW** 



#### **FRONT VIEW**

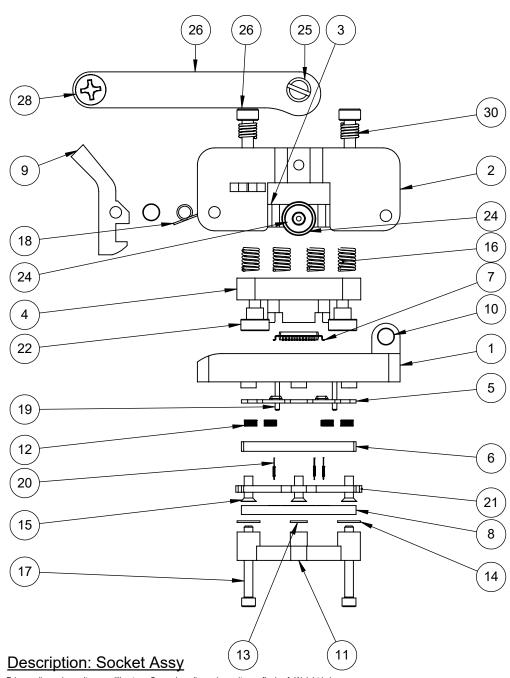
- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
  Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
  Parallelism measurement shall exclude any effect of mark on top surface of package.

#### **Description: Compatible Device**

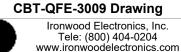
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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-QFE-3009 Drawing		Material: N/A	STATUS: Released	SHEET: 3 OF 5	REV. A
<b>                                    </b>	Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 44.52	ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 6:1
	www.ironwoodelectronics.com		FILE: CBT-QFE-3009 Dwg	DATE: 06/02/2016	

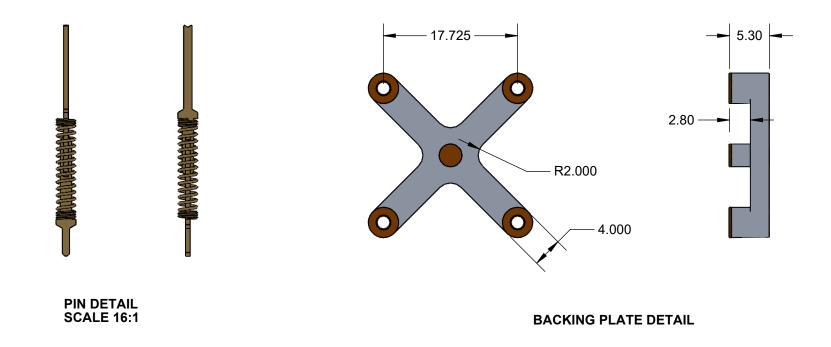


Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances:</u> Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.



ving Material: N/A ps, Inc. 204 Weight: 44.52 nics.com

[	ITEM	DESC			Material	
	NO.					
	1		t base lever lid	/0/	5-T6 Alumium Alloy	
	2		ver design	707	5-T6 Alumium Alloy	
	3	T-T, 0.	plate QFE48 9x9mm 5mm pitch	7075	5-T6 Aluminum Alloy	
	4	9x9mm T-	ession plate QFE48 T, 0.5mm pitch		PEEK	
	0.5m		e QFE48 9x9mm T-T, nm pitch		PEEK	
			QFE48 9x9mm T-T, nm pitch	Semitron MDS 100		
7 <sup>9x</sup>		0.5mm p	o, 7x7mm body size bitch QFE48	FR4 High temp		
	o pitch 7m		9mm tip to tio, 0.5mm m body size	FR4 High temp		
	9	Clamshell Lato	h Snap Lid Socket	707	5-T6 Alumium Alloy	
			ו OD, 24mm Lg, SS	Sta	ainless Steel (303)	
	11	Ni plt 5 POST BA	CKING PLATE 15MM	7075	5-T6 Aluminum Alloy	
	12		Guide Spring		Alloy Steel (SS)	
	13		asher, 3mm OD.		ton Polyimide/Ćirlex	
	14		asher, 4mm OD.		ton Polyimide/Cirlex	
	15      #0-80, 90 deg., hea Peek m        16      302SS Comp. Spring OD, .016"		ead pin guide screw, material	PEEK unfilled		
			ing .375" Length, .125" 6" Wire Dia.	Material <not specified=""></not>		
			, SH Cap Screw	18-8 Stainless Steel		
		Coil Spring, 1	80 0.109" OD, SS	Sta	Stainless Steel (302)	
	19Dowel pin, 2020Stamped Pin, 0.5r21Bottom pin guide 0.5r2218 SS Shoulder 2mm Long Sh2318 SS Shoulder 3mm Long Sh24Bearing 3mm sh V25Shoulder Screw; 3		1/32" X 1/4", SS	Stainless Steel (18-8) N/A		
			0.4mm SBT-BGA			
			e QFE48 9x9mm T-T, nm pitch	Semitron MDS 100		
			Screw, 3 mm Dia. x oulder, M2 Thread	18-8 Stainless Steel		
			Screw, 3 mm Dia. x oulder, M2 Thread	18-8 Stainless Steel		
			aft, 6mm OD, 2.5mm Vidth			
			/32" Shoulder dia,, 1/8" -56 Thread	Stainless Steel (18-8)		
	26	Custom 60° movement cam handle Aluminum Standoff 6.35x25.4 #4-40 tap		7075	5-T6 Aluminum Alloy	
	27			6061-T4 (SS)		
	28					
	29	Socket Head Cap	Screw M2 8mm long	Stainless Steel (316)		
Zinc-Plated Steel p 30 spring 125"OD 0.2		Zinc-Plated Steel spring 125"OD 0.2	precision compression 25" length 0.016" wire ameter	Material <not specified=""></not>		
STATUS:	Releas	sed	SHEET: 4 OF 5			
ENG: S.			DRAWN BY: M. Raske		SCALE: 1.5:1	
					UUALL. 1.U.1	
FILE: CB	I-QFE-	3009 Dwg	DATE: 06/02/2016			



#### Description: PIN, BACKING PLT DETAIL

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-QFE-3009 Drawing	Material: N/A Finish: N/A Weight: 44.52	STATUS: Released	SHEET: 5 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 2:1
www.ironwoodelectronics.com	Weight. 44.02	FILE: CBT-QFE-3009 Dwg	DATE: 06/02/2016	