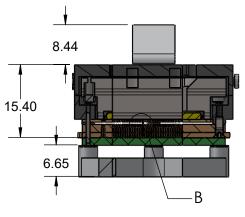
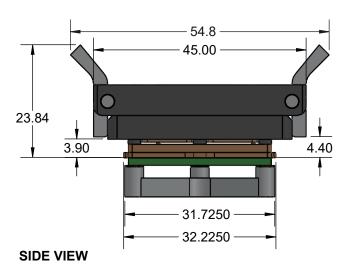


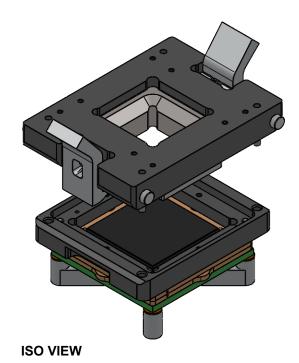
FEATURES:

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

TOP VIEW







Description: Open Top CBT socket for 0.5mm pitch 20mm sq 22mm tip-tip 144 pin QFP package, two pins per lead-kelvin connection

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.

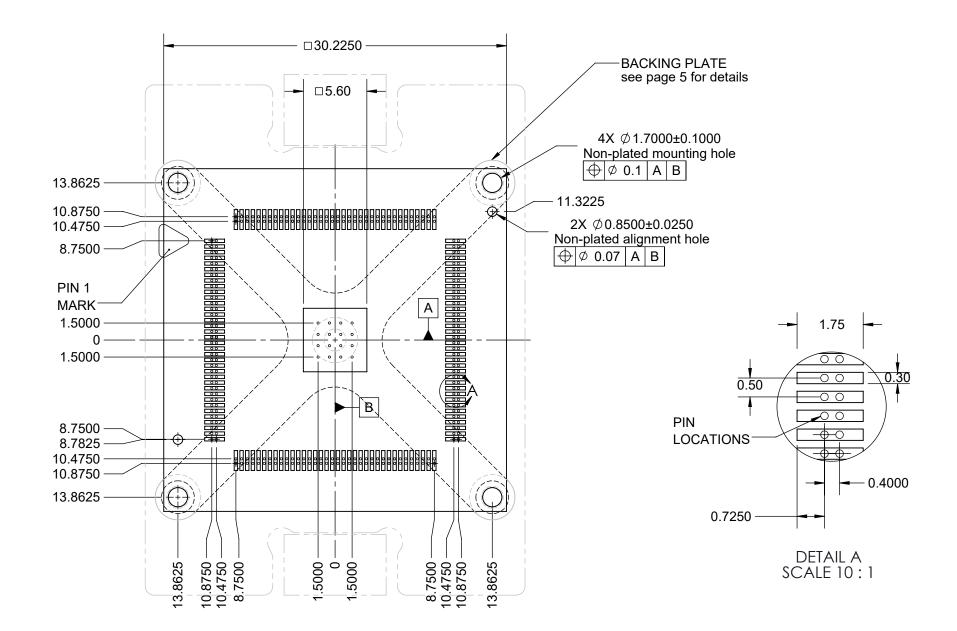
CB.	Γ-QF	E-3	013	Drawii	ng

SECTION A-A



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STATUS: Released	SHEET: 1 OF 6	REV. B
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.25:1
FILE: CBT-QFE-3013 Dwg	DATE: 01/02/2018	



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.

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

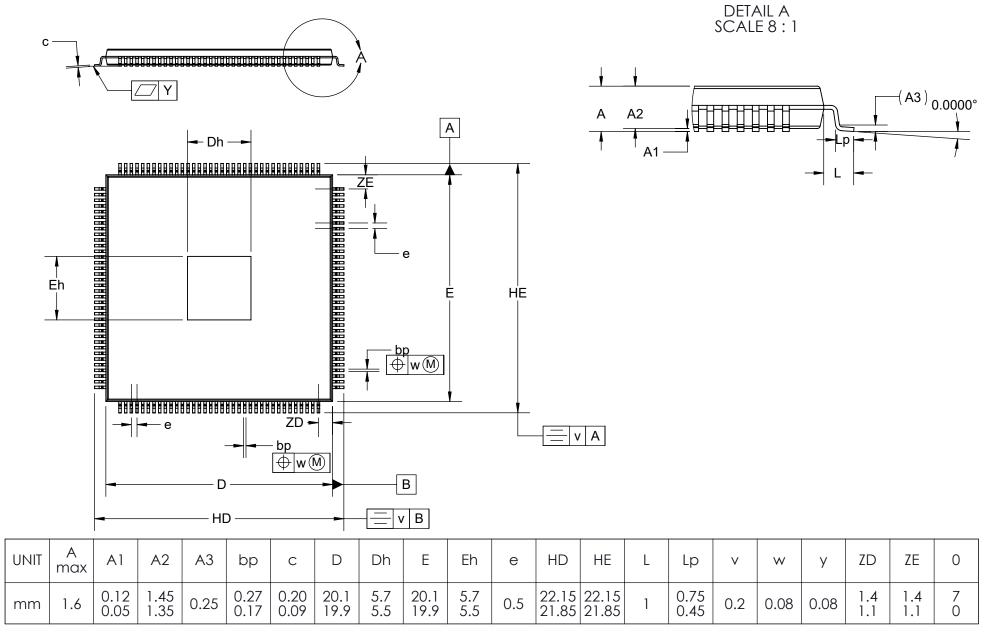
Plating: Hard Gold.

CBT-QFE-3013 Drawing



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STATUS: Released	SHEET: 2 OF 6	REV. B
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
FILE: CBT-QFE-3013 Dwg	DATE: 01/02/2018	



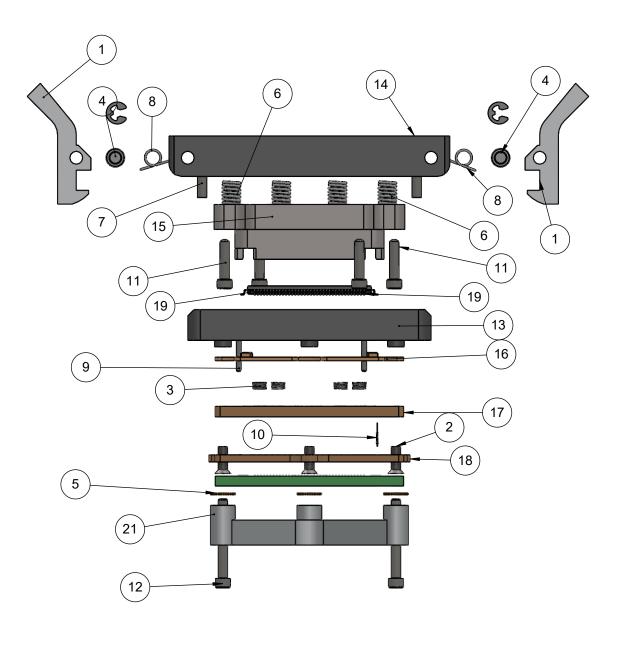
Description: Compatible Device

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.

CI	BT-QFE-3013 Drawing
A	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com
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STATUS: Released	SHEET: 3 OF 6	REV. B
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
FILE: CBT-QFE-3013 Dwg	DATE: 01/02/2018	



Description: Socket Assy

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

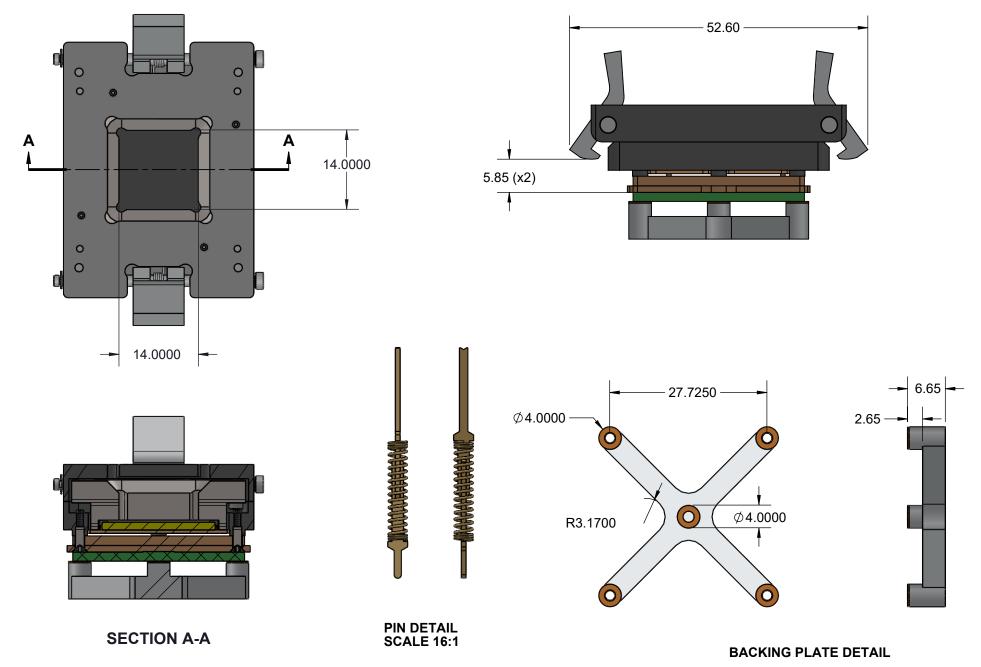
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

CBT-QFE-3013 Drawing

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	21	SBT/CBT Backing Plate 25mm IC Snap ring for 2mm Hinge pin 0.15" OD		7075-T6 Aluminum Alloy	
	22				
STATUS: Released		SHEET: 4 OF 6		REV. B	
ENG: E. Smolentseva			DRAWN BY: M. Raske		SCALE: 1.65:1
FILE: CBT-QFE-3013 Dwg		DATE: 01/02/2018			

ITEM NO.	DESCRIPTION	Material	
1	Clamshell Latch Snap Lid Socket	7075-T6 Alumium Alloy	
2	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled	
3	Floating Guide Spring	Alloy Steel (SS)	
4	Hinge Pin, 2mm OD, 34mm Lg, SS	Stainless Steel (303)	
5	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex	
6	302SS Comp. Spring .375" Length, .125" OD, .016" Wire Dia.	Stainless Steel (302)	
7	Dowel Pin, M1.5 X 5mm LG, Hardened Steel	AISI 347 Annealed Stainless Steel (SS)	
8	Coil Spring, 180 0.109" OD, SS	Stainless Steel (302)	
9	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)	
10	P-P185A Stamped Pin	N/A	
11	#0-80 Socket Head Cap 0.25" Lenght 18-8 SS	Stainless Steel (18-8)	
12	#0-80 x 0.5, SH Cap Screw	18-8 Stainless Steel	
13	CBT socket base double latch	7075-T6 Alumium Alloy	
14	Lid, double latch socket	7075-T6 Alumium Alloy	
15	Compression plate QFE48 9x9mm T-T, 0.5mm pitch	PEEK	
16	Floating pin guide	Semitron MDS 100	
17	Middle pin guide	Semitron MDS 100	
18	Bottom pin guide	Semitron MDS 100	
19	Tchip, QFP144		
20	Test Board QFE144	FR4 High temp	
21	SBT/CBT Backing Plate 25mm IC	7075-T6 Aluminum Alloy	
22	Snap ring for 2mm Hinge pin 0.15" OD		



Description: PIN, BACKING PLT 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-QFE-3013 Drawing Material: N/A Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 38.71 STATUS: Released SHEET: 5 OF 6 REV. B ENG: E. Smolentseva DRAWN BY: M. Raske SCALE: 1.5:1 FILE: CBT-QFE-3013 Dwg DATE: 01/02/2018

Rev	Date	Initials	Description
В	1/19/21	MR	added "two pins per lead / kelvin connection" to Description per MAF

Description: Sheet1

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-3013 Drawing	Material: Finish: Weight:	STATUS: Released	SHEET: 6 OF 6	REV. B
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