## OPEN TOP DUAL LATCH CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



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-3008 Drawing		Material: N/A	STATUS: Released	SHEET: 1 OF 5	REV. A
•	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 46.86	ENG: S, Faiz DRAWN BY: S. Faiz	DRAWN BY: S. Faiz	SCALE: 1.5:1
		Weight. +0.00	FILE: CBT-QFE-3008 Dwg	DATE: 11/3/2015	



## 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.

	CBT-QFE-3008 Drawing Material: N/A		STATUS: Released	SHEET: 2 OF 5	REV. A
0	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 46.86	ENG: S, Faiz	DRAWN BY: S. Faiz	SCALE: 4:1
3		Weight. +0.00	FILE: CBT-QFE-3008 Dwg	DATE: 11/3/2015	



1. Dimensions are in millimeters.

2. Interpret dimensions and tolerances per ASME Y14.5M-1994.

## **Description: Compatible Device**

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-3008 Drawing	Material: N/A Finish: N/A Weight: 46.86	STATUS: Released	SHEET: 3 OF 5	REV. A
0	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S, Faiz	DRAWN BY: S. Faiz	SCALE: 4:1
9			FILE: CBT-QFE-3008 Dwg	DATE: 11/3/2015	



ITEM NO.	DESCRIPTION	Default/QTY.	Material
1	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	2	AISI 1045 Steel, cold drawn
2	#0-80 X .188" LG FL HD, Slotted, Polypropylene	4	PP Homopolymer
3	302SS Comp. Spring .375" Length, .125" OD, .016" Wire Dia.	4	Material <not specified=""></not>
4	#0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	4	Alloy Steel
5	#0-80 x 0.5, SH Cap Screw	4	Alloy Steel
6	Dowel Pin, M1.5 X 5mm LG, Hardened Steel	2	AISI 347 Annealed Stainless Steel (SS)
7	180° Left-Hand Torsion Spring	2	Steel Music Wire
8	Dowel pin, 1/32" X 1/4", SS	2	Stainless Steel (18-8)
9	Test PCB	1	FR4 per IPC 4101/21/26/83/98, Td>=345C
10	QFP, 128-Leads, Body 14x14mm, Pitch 0.4mm,	1	
11	Floating pin guide QFE128SD	1	PEEK
12	Middle pin guide QFE128SD CBT-QFE-3008	1	PEEK
13	Bottom pin guide QFE128SD CBT-QFE-3008	1	PEEK
14	CBT socket base double latch 20.725mm cavity	1	7075-T6 Alumium Alloy
15	Lid, double latch socket	1	7075-T6 Alumium Alloy
16	Compression plate QFE128SD 16mm tip-tip	1	Torlon 5530
17	Floating Guide Spring	4	Alloy Steel (SS)
18	Stamped Pin, 0.4mm SBT- BGA	128	N/A
19	15mm clamshell latch	2	7075-T6 Aluminum Alloy
20	Cu slug for CBT-QFE-3008	1	Copper
21	backing plate	1	7075-T6 Aluminum Alloy
22	Custom Insulation Plate CBT-QFE-3008	1	High temp Substrate

## Description: Socket Assy, Insulation Plate

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

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Material: N/A Finish: N/A Weight: 46.86



CBT-QFE-3008 Drawing				
)	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com			

STATUS: Released	SHEET: 4 OF 5	REV. A
ENG: S, Faiz	DRAWN BY: S. Faiz	SCALE: 1.5:1
FILE: CBT-QFE-3008 Dwg	DATE: 11/3/2015	

Cu Slug DETAIL









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

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

	CBT-QFE-3008 Drawing	Material: N/A Finish: N/A Weight: 46.86	STATUS: Released	SHEET: 5 OF 5	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S, Faiz	DRAWN BY: S. Faiz	SCALE: 4:1
0			FILE: CBT-QFE-3008 Dwg	DATE: 11/3/2015	

PIN DETAIL SCALE 16:1

**MAAAAAAA**