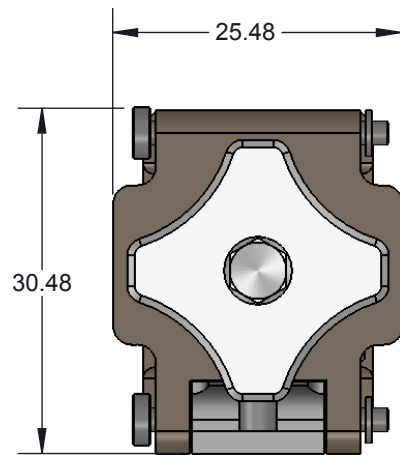
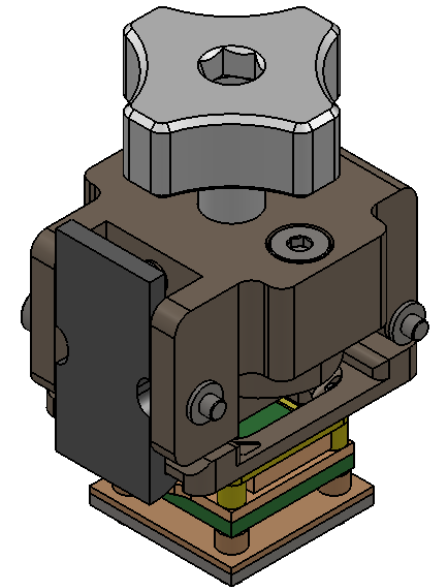
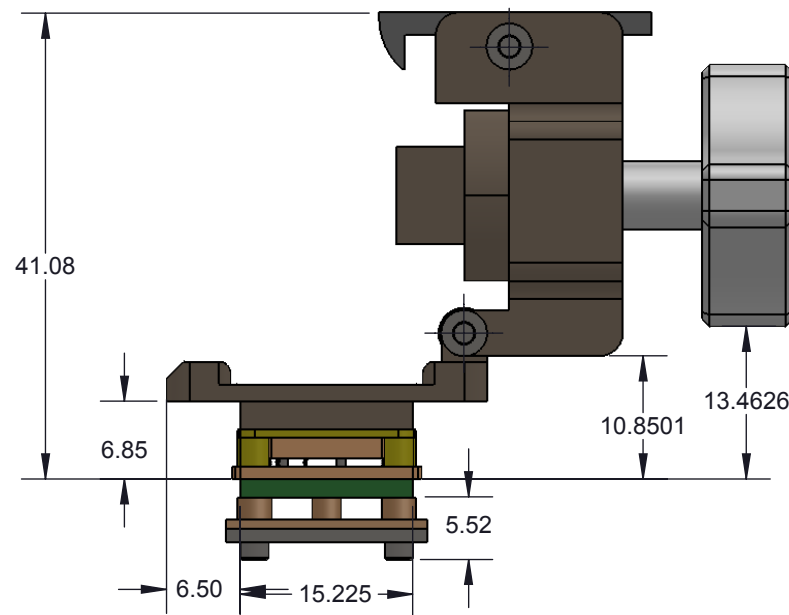
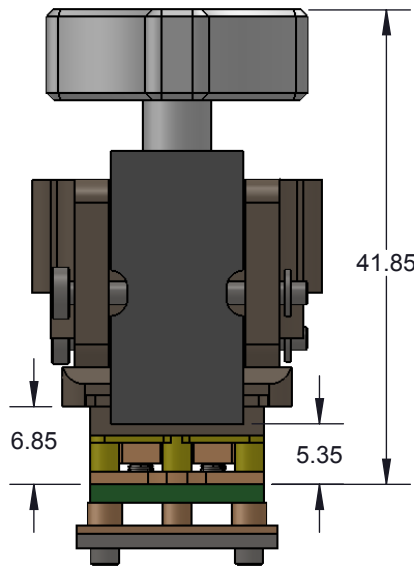


# CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



## 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

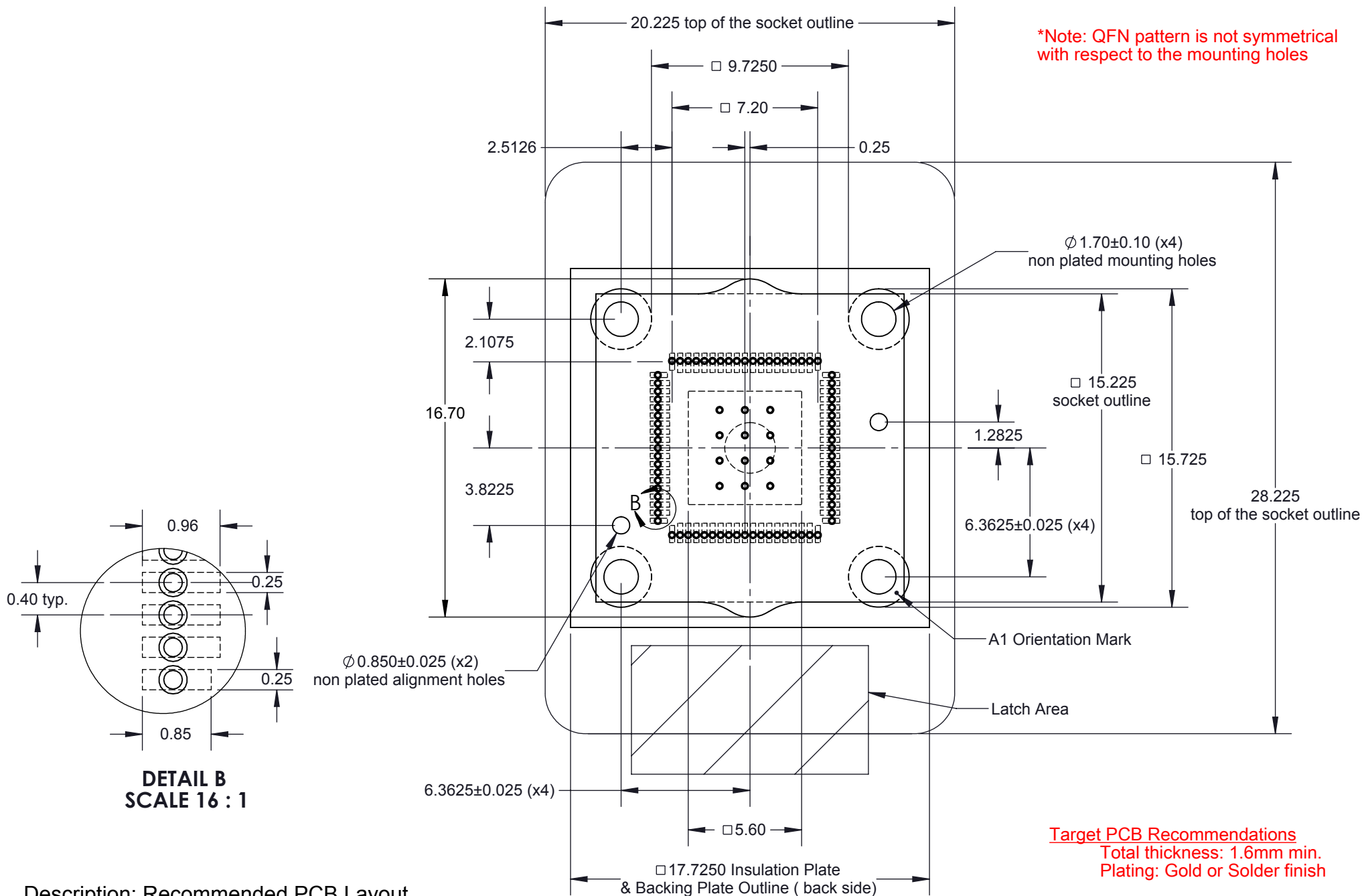


## Description: CBT-QFN76 9x9mm 0.4mm pitch

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

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


<b>CBT-QFN-7023 Drawing</b>  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 <a href="http://www.ironwoodelectronics.com">www.ironwoodelectronics.com</a>	Material: N/A Finish: N/A Weight: 41.87	STATUS: Released	SHEET: 1 OF 5	REV. B
		ENG: E. Smolentseva	DRAWN BY: D. Hauer	SCALE: 3:2
		FILE: CBT-QFN-7023 Dwg	DATE: 06/25/12	



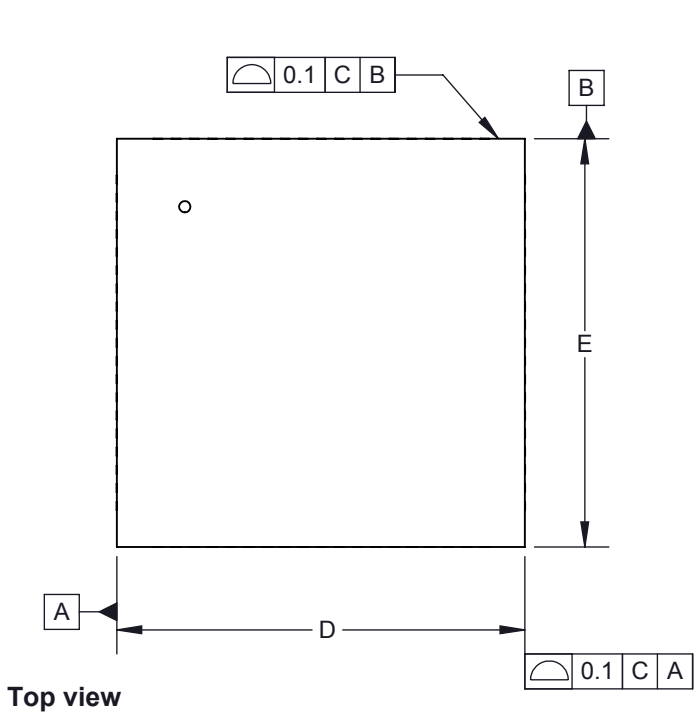
## Description: Recommended PCB Layout

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

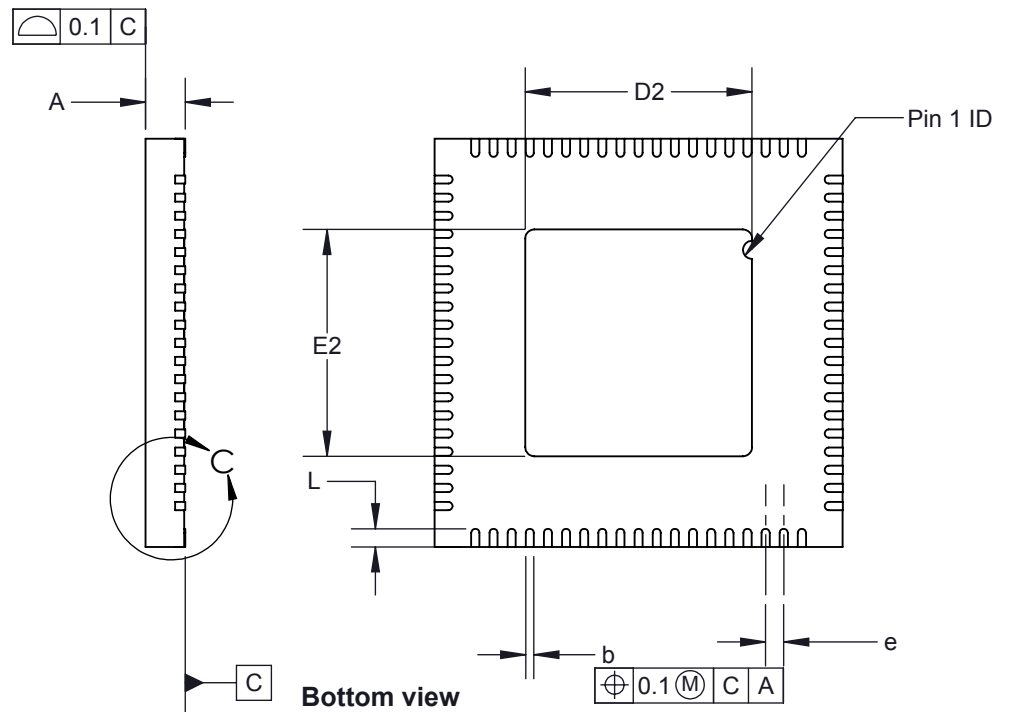
Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

<b>CBT-QFN-7023 Drawing</b>  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 41.87	STATUS: Released ENG: E. Smolentseva FILE: CBT-QFN-7023 Dwg	SHEET: 2 OF 5 DRAWN BY: D. Hauer DATE: 06/25/12	REV. B SCALE: 4:1

**IRONWOOD PACKAGE CODE: QFN76A**



### Side view

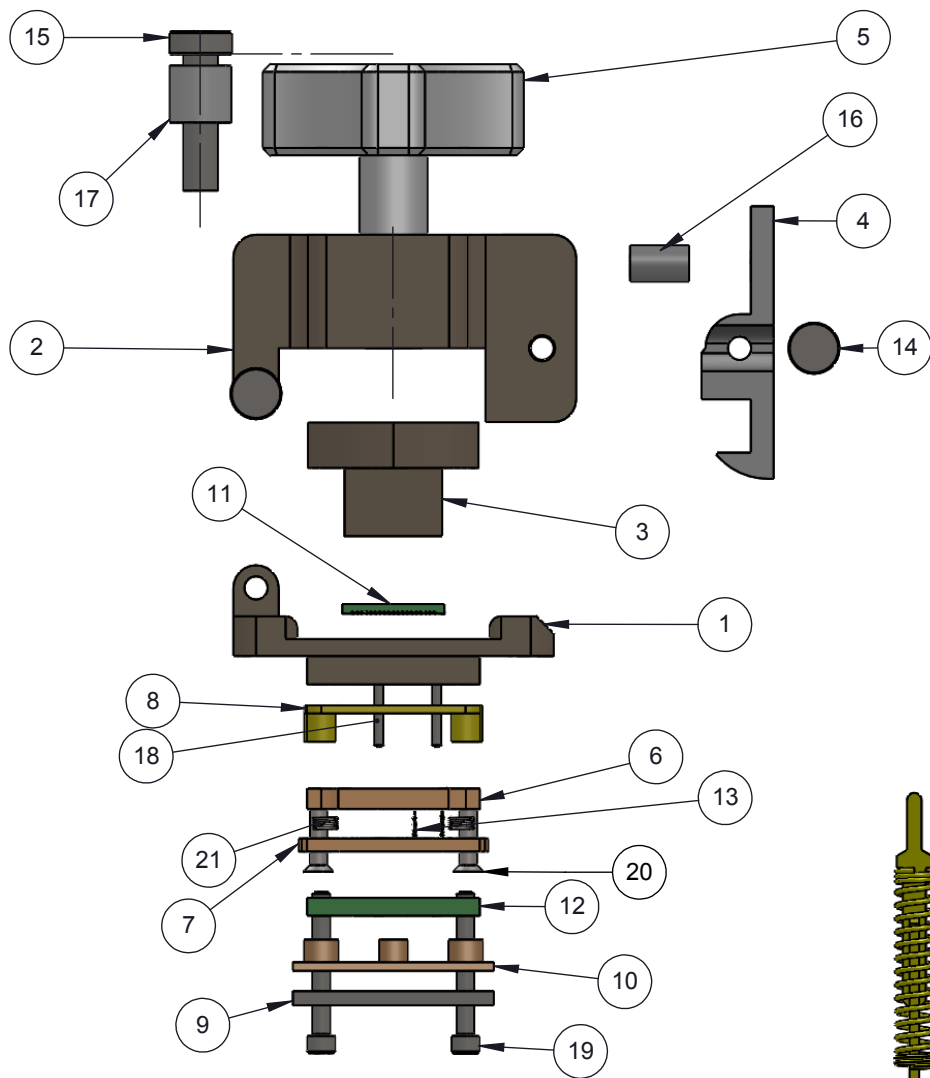


### Description: Compatible QFN

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

Tolerances: Hole diameters  $\pm 0.0254\text{mm}$  [ $\pm 0.001"$ ], Pitches (from true position)  $\pm 0.0762\text{mm}$  [ $\pm 0.003"$ ], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.127\text{mm}$  [ $\pm 0.005"$ ] unless stated otherwise. Materials and specifications are subject to change without notice.

DIM	Minimum	Maximum
A		0.90
A1		0.05
A2		0.70
b	0.13	0.23
D	9.0 BSC	
D2	5.0	
E	9.0 BSC	
E2	5.0	
L	0.30	0.50
e	0.4 BSC	
PIN COUNT		76 + center pad

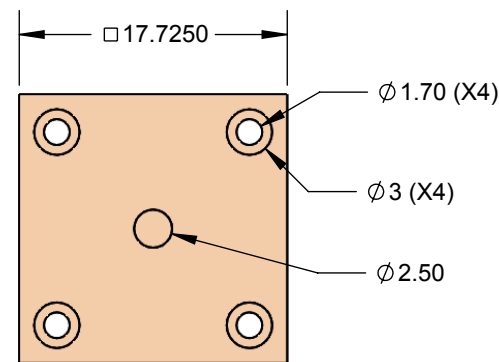


Not shown: #14,

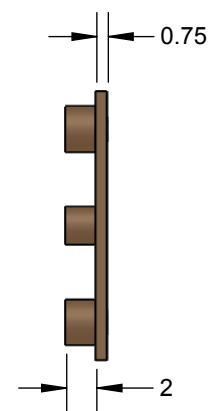


SBT Pin  
scale 16:1

ITEM NO.	DESCRIPTION	Material
1	CBT Socket Base 10mm	7075-T6 Aluminum Alloy
2	Clam Shell Socket Lid 10mm IC	7075-T6 Aluminum Alloy
3	CBT Compression Plate 10mm IC	7075-T6 Aluminum Alloy
4	Latch 6- 10mm Ni plated	7075-T6 Aluminum Alloy
5	M6x1 fluted knob compression screw, Ni plated	7075-T6 Aluminum Alloy
6	SBT Top Spring Pin Guide - QFN76 9mm, 0.4mm pitch	Semitron MDS 100
7	SBT Bottom Spring Pin Guide - QFN76 9mm, 0.4mm pitch	Semitron MDS 100
8	IC Guide 9mm sqr.; 0.25mm shift	Torlon 4203
9	Backing Plate 10mm IC 1.25mm thick, Stainless Steel	Stainless Steel (ferritic)
10	Insulation Plate	Ultem 1000
11	Customer's QFN76 0.4mm pitch, 9x9mm	FR4 Standard
12	Customer's target PCB for 9mm QFN76 0.4mm pitch	FR4 Standard
13	Stamped Pin, 0.4mm SBT-LGA/QFN	N/A
14	Hinge Pin and Snap Ring, 2mm OD, 19mm long, SS	Stainless Steel (ferritic)
15	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
16	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
17	Spring Clamshell lid assembly	Steel Music Wire
18	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
19	#0-80 x 0.5, SH Cap Screw	18-8 Stainless Steel
20	#0-80X0.25", 90 deg., head pin guide screw, Peek material	PEEK unfilled
21	Floating Guide Spring	Alloy Steel (SS)



Insulation Plate Top View  
Scale 2:1




Insulation Plate Side View  
Scale 2:1

## Description: Socket Assy, detail

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


Tolerances: Hole diameters  $\pm 0.0254\text{mm}$  [ $\pm 0.001"$ ], Pitches (from true position)  $\pm 0.0762\text{mm}$  [ $\pm 0.003"$ ], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.127\text{mm}$  [ $\pm 0.005"$ ] unless stated otherwise. Materials and specifications are subject to change without notice.

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Rev	Date	Initials	Description
A	06/25/12	DH	Original
B	03/18/15	DH	Changed IC guide material from Ultem to Torlon
C	03/25/15	ELS	Updated pin guide design.

### Description: Revisions

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.

<div> <div>  </div> <div> <b>CBT-QFN-7023 Drawing</b> </div> </div> <div> ©2015 Ironwood Electronics, Inc.  Tele: (800) 404-0204  www.ironwoodelectronics.com </div>	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. B
		ENG: E. Smolentseva	DRAWN BY: D. Hauer	SCALE: 3:2
		FILE: CBT-QFN-7023 Dwg	DATE: 06/25/12	