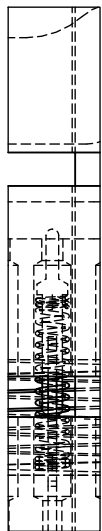
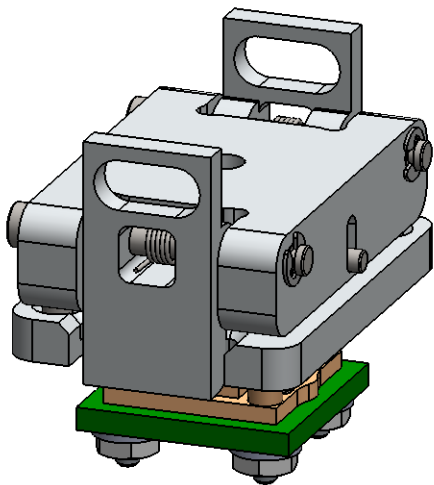


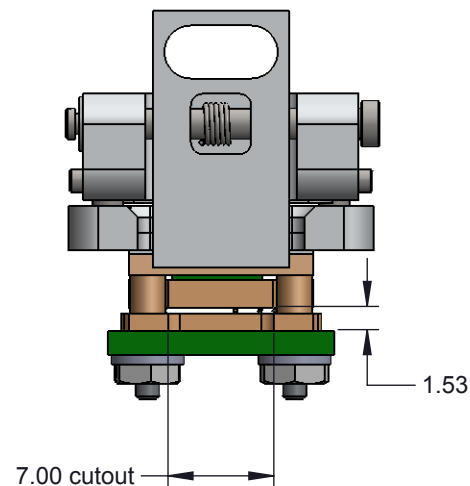
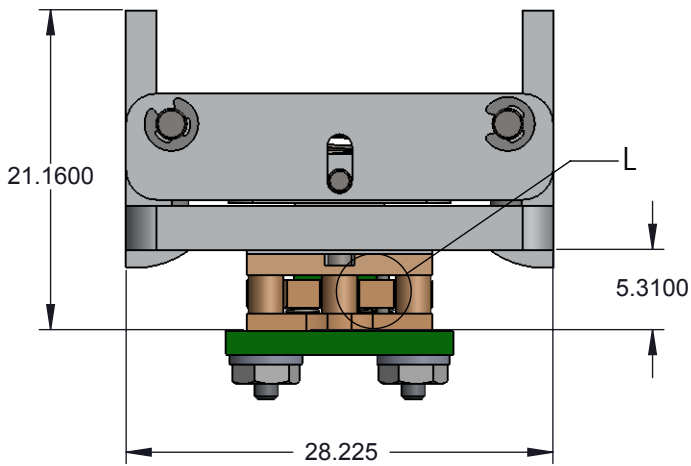
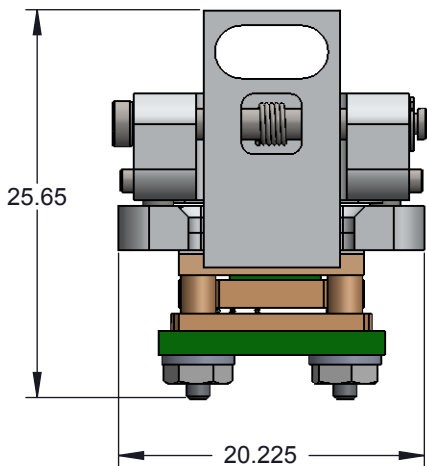
# CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



DETAIL L  
SCALE 14 : 1

## 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.

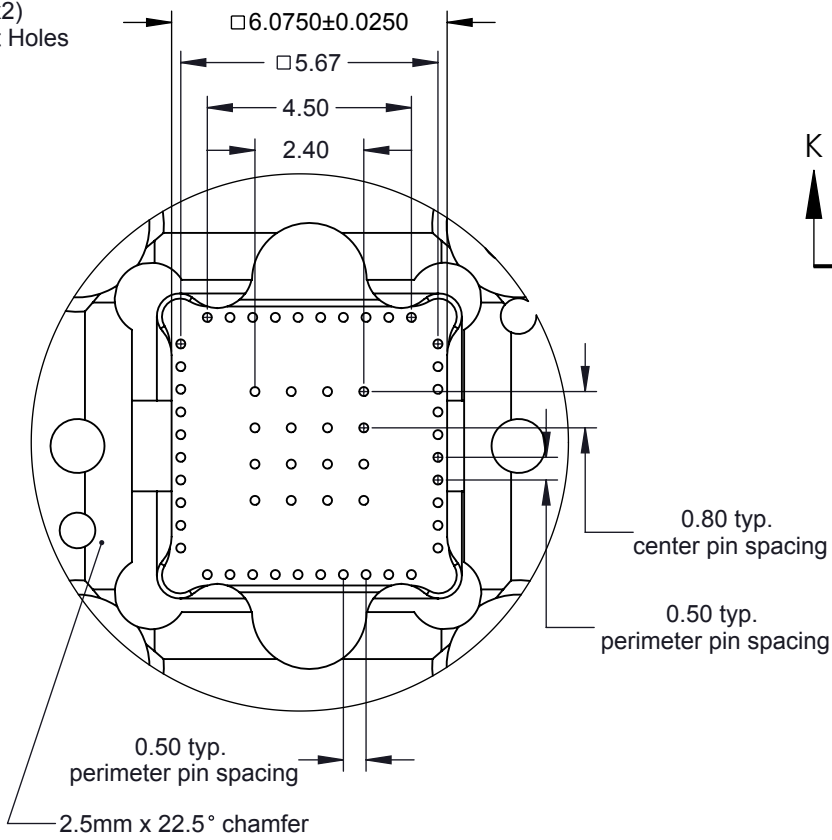
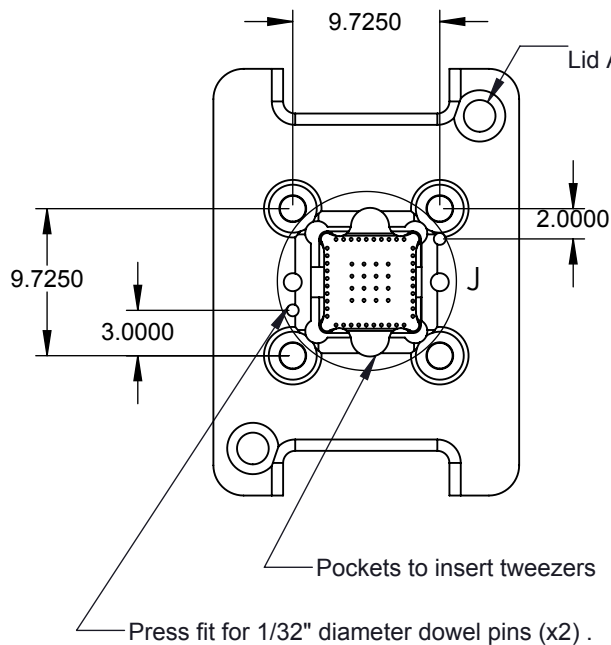


## Description: Socket

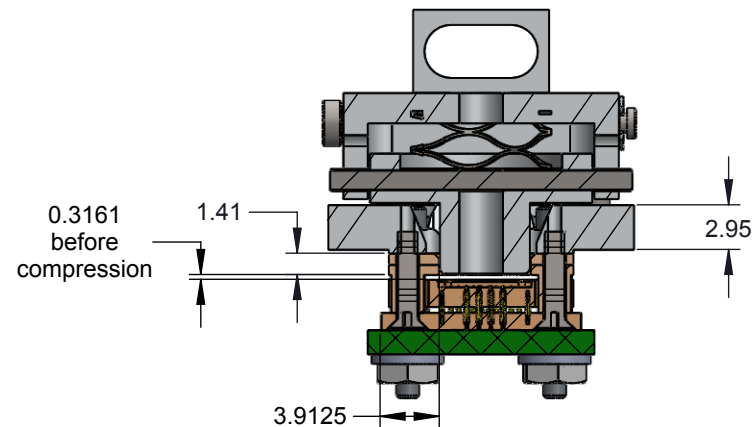
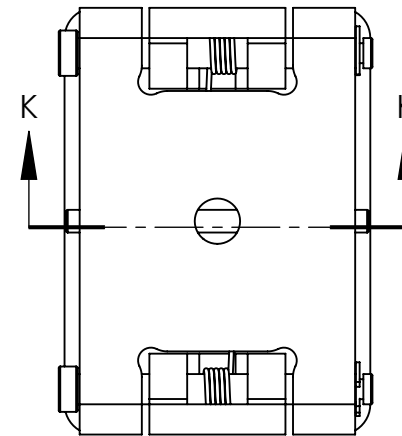
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.82	STATUS: Released	SHEET: 1 OF 5	REV. E
		DRAWN BY: E. Smolentseva	SCALE: 2:1	
		FILE: CBT-QFN-7018 Dwg	DATE: 7/13/2011	



**DETAIL J**  
**SCALE 6 : 1**




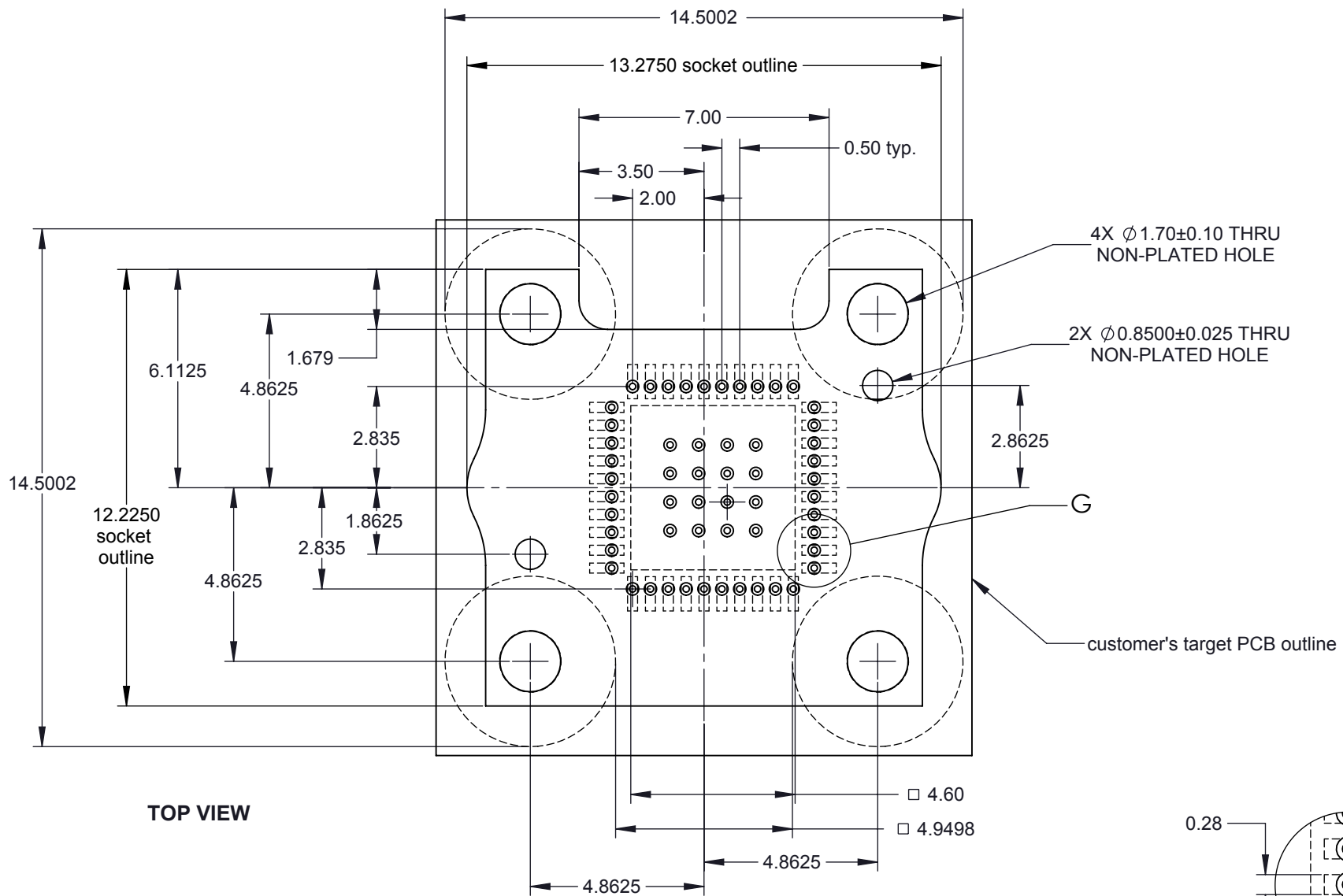
**SECTION K-K**  
**SCALE 2 : 1**

**Description: Cavity 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.

 <p><b>CBT-QFN-7018 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 15.82</p>	<p>STATUS: Released</p>	<p>SHEET: 2 OF 5</p>	<p>REV. E</p>
	<p>ENG: E. Smolentseva</p>	<p>DRAWN BY: E. Smolentseva</p>	<p>SCALE: 2:1</p>	<p>DATE: 7/13/2011</p>
<p>FILE: CBT-QFN-7018 Dwg</p>				



**TOP VIEW**

**Target PCB Recommendations**


- Total thickness: 1.6mm min.
- Plating: Gold or Solder finish
- PCB Pad height: Same or higher than solder mask

**DETAIL G  
SCALE 12 : 1**

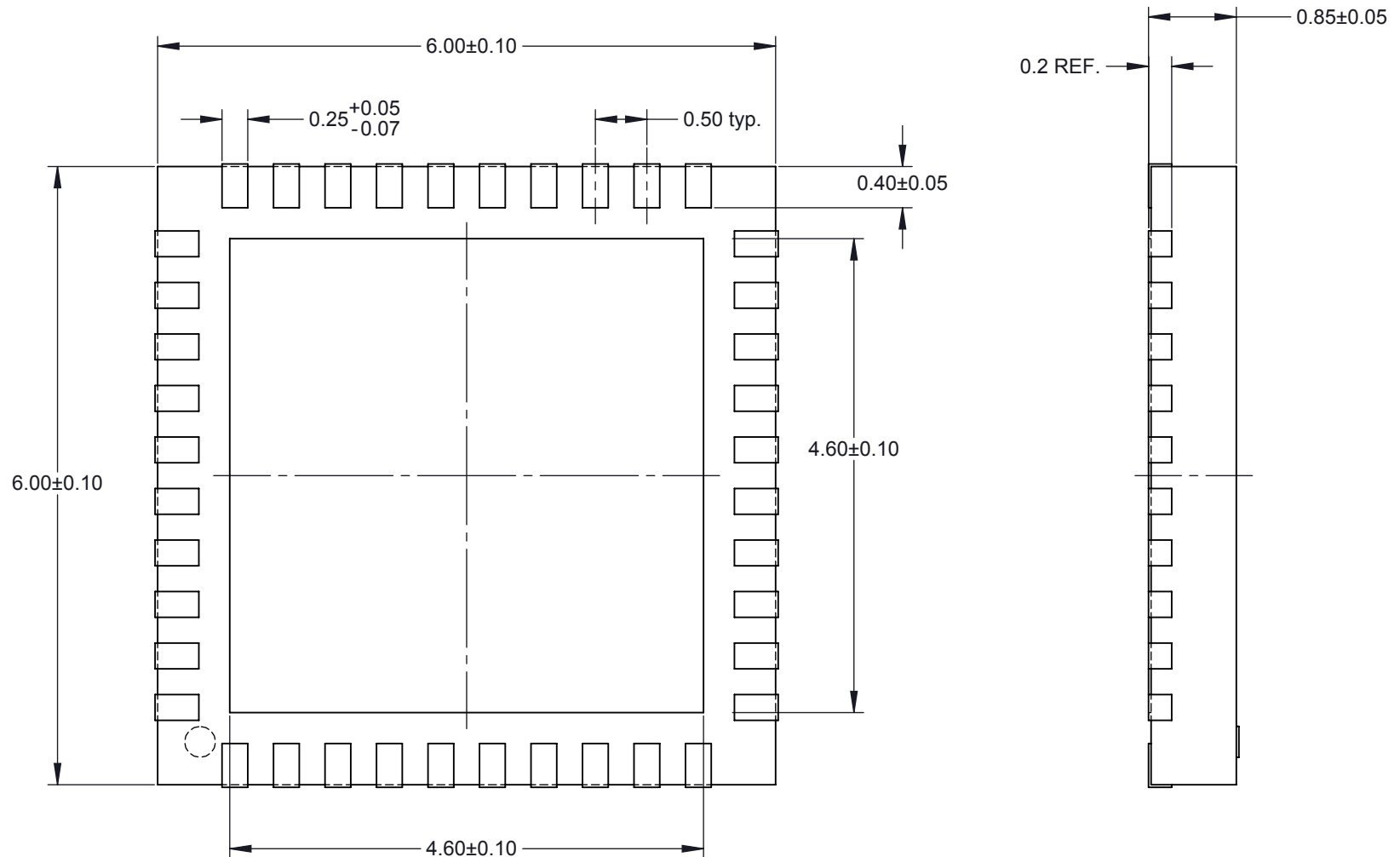
**Description: Recommended PCB layout**

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-7018 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.82	STATUS: Released	SHEET: 3 OF 5	REV. E
		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 6:1
		FILE: CBT-QFN-7018 Dwg	DATE: 7/13/2011	

# Ironwood Package Code: QFN40A




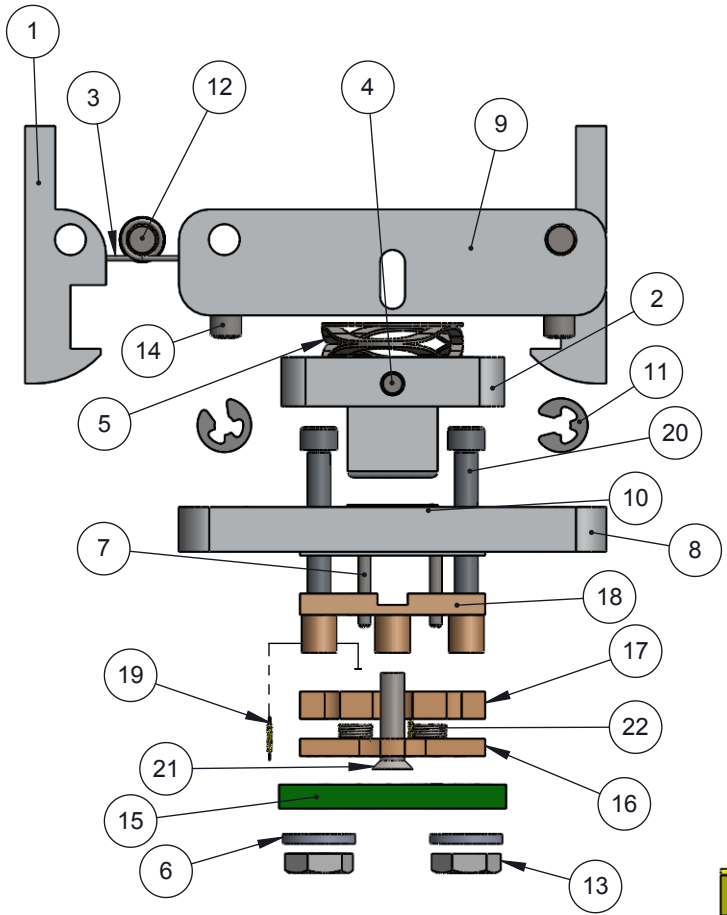
1. Dimensions are in millimeters.

## Description: QFN40

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.

 <b>CBT-QFN-7018 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.82	STATUS: Released ENG: E. Smolentseva FILE: CBT-QFN-7018 Dwg	SHEET: 4 OF 5 DRAWN BY: E. Smolentseva DATE: 7/13/2011	REV. E SCALE: 16:1



PIN DETAIL 13:1




ITEM NO.	DESCRIPTION	Material
1	10x10mm clamshell latch	7075-T6 Aluminum Alloy
2	CBT Compression Plate for 6x6mm IC	7075-T6 Aluminum Alloy
3	Torsion Spring, 180 0.109" OD, Ccw/Rh	Steel Music Wire
4	Dowel Pin, M1.5 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
5	Wave Spring 0.375"OD 0.15" In 100lbs/in	Steel Music Wire
6	Washer, #0 x .025", Nylon	Nylon 6/6
7	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
8	CBT double latch Socket Base for up to 7mm QFN	7075-T6 Aluminum Alloy
9	CBT Snap double latch socket lid for up to 10mm IC	7075-T6 Aluminum Alloy
10	6mm x 6mm 0.5mm pitch QFN40	FR4 High temp
11	Snap ring for 2mm Hinge pin 0.15" OD	
12	2mm diameter Hinge Pin, 20 mm long	Alloy Steel
13	Nut, #0-80, SS	Stainless Steel (18-8)
14	M2 Dowel Pin 4mm SS	Stainless Steel (18-8)
15	Customer's target PCB for 6x6mm 0.5mm pitch QFN40	FR4 Standard
16	CBT Bottom Guide for 6mm x 6mm 0.5mm pitch QFN40	Semitron MDS 100
17	CBT Top Guide for 6mm x 6mm, 0.5mm pitch QFN40	Semitron MDS 100
18	IC Guide for 6mm x 6mm IC	Torlon 4203
19	Stamped Pin, 0.4mm SBT-LGA/QFN	N/A
20	#0-80 X 7/16" LG, SOC HD CAP SCREW	Stainless Steel (304)
21	#0-80X0.25", 90 deg., head pin guide screw, Peek material	PEEK unfilled
22	Floating Guide Spring	Alloy Steel (SS)

Rev	Date	Initials	Description
A	7/13/11	ELS	Original
B	2/4/13	GL	Corrected board numbers in BOM, P3893 chg'd to P8329, P3894 PCB chg'd to P8330
C	7/17/14	ELS	Changed operating temperature from +155°C to +180°C and current from 2.5A to 4A.
D	09/25/14	DH	Chnaged IC Guide material to Torlon
E	8/12/15	ELS	updated pin guides. Changed pin. Removed pin orientation guide. Updated IC guide. Added floating guide springs.

### Description: Skt, Insulation Plate, Pin Det

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.

 <b>CBT-QFN-7018 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.82	STATUS: Released	SHEET: 5 OF 5	REV. E
		ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 1:1
		FILE: CBT-QFN-7018 Dwg	DATE: 7/13/2011	