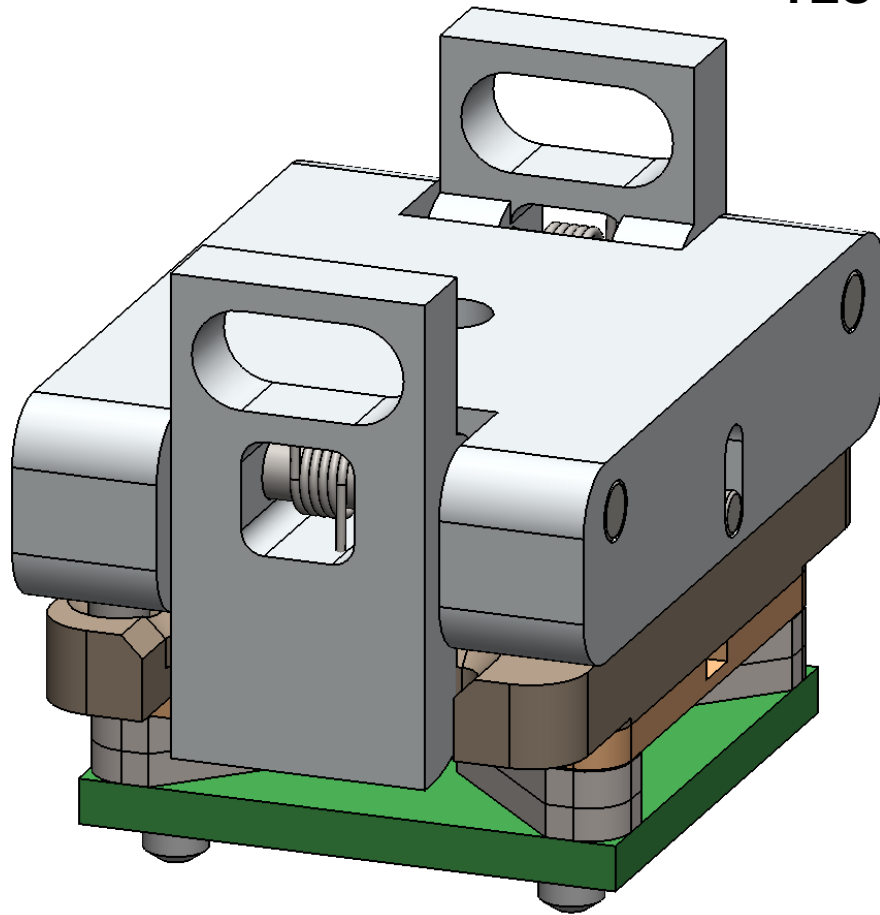
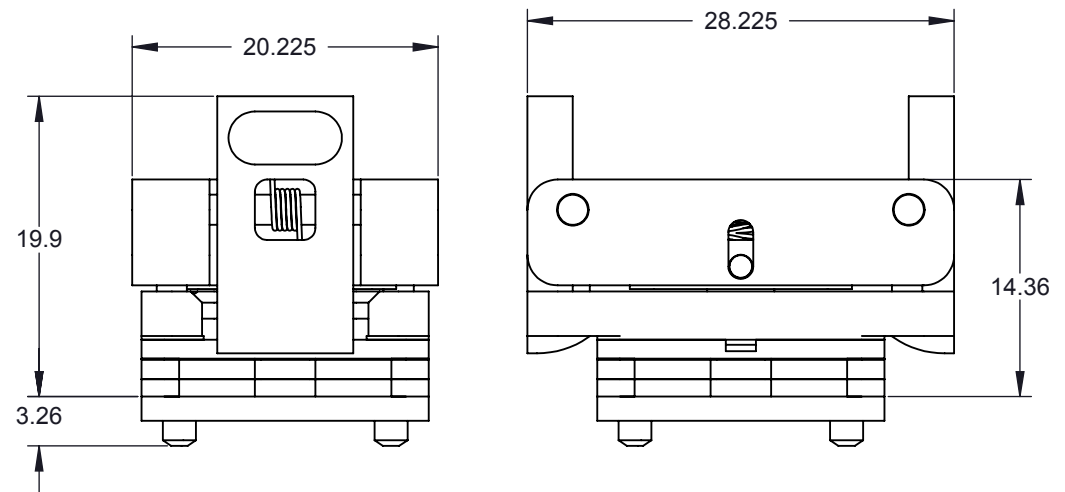


CBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



Features

- Wide temperature range (-55C to +180C).
- High current capability (up to 6A).
- 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 QFN28 4.5x4.5mm 0.5mm pitch

Primary dimension units are millimeters, Secondary dimension units are [inches].

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.

CBT-QFN-7010 Drawing



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

Material: N/A
Finish: N/A
Weight: 15.65

STATUS: Released

DRAWN BY: S. Delano

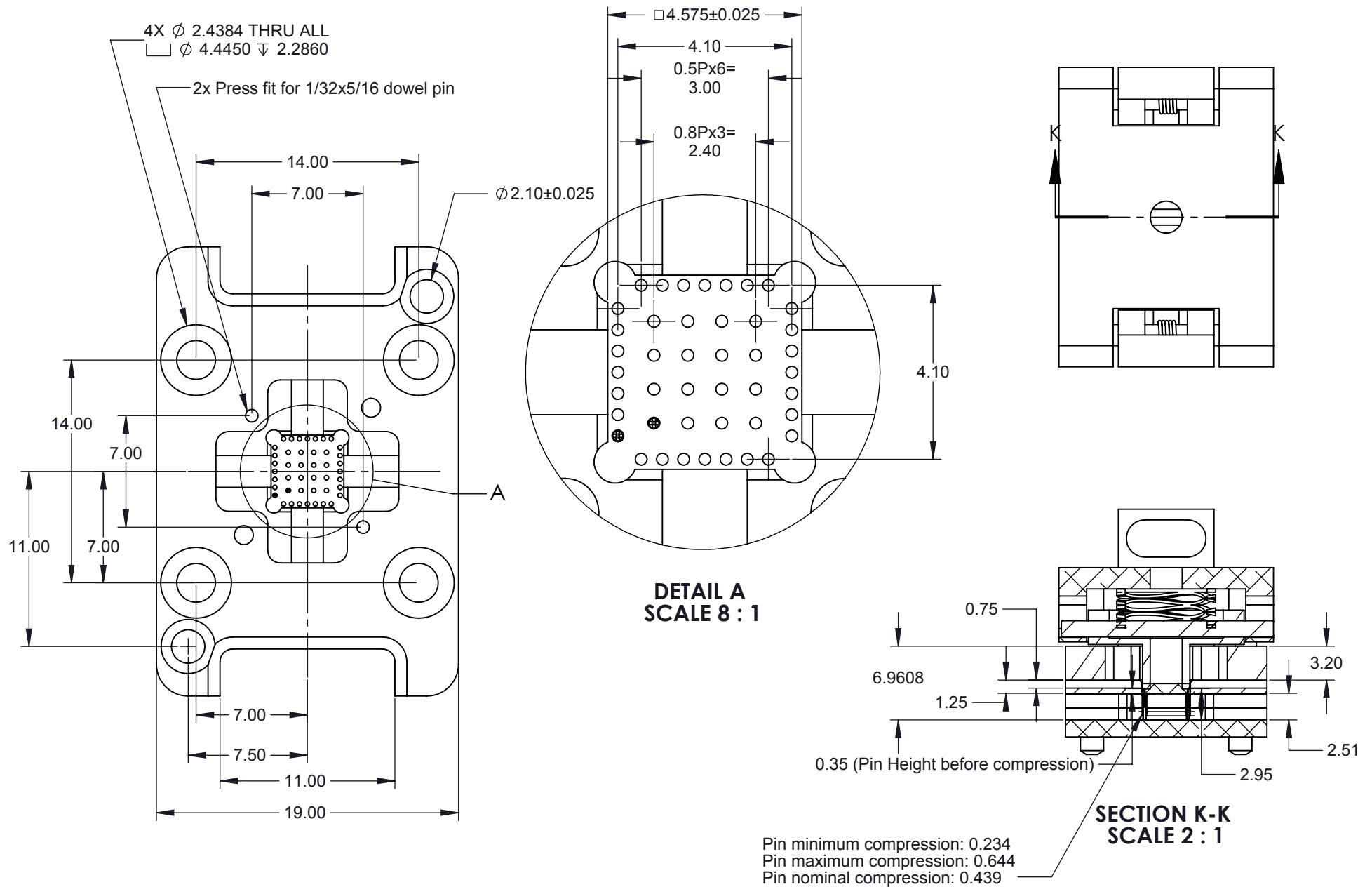
FILE: CBT-QFN-7010 Dwg

SHEET: 1 OF 5

SCALE: 2:1

DATE: 4/4/2011

REV. A



Description: Cavity detail

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

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

CBT-QFN-7010 Drawing



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

Material: N/A
 Finish: N/A
 Weight: 15.65

STATUS: Released

DRAWN BY: S. Delano

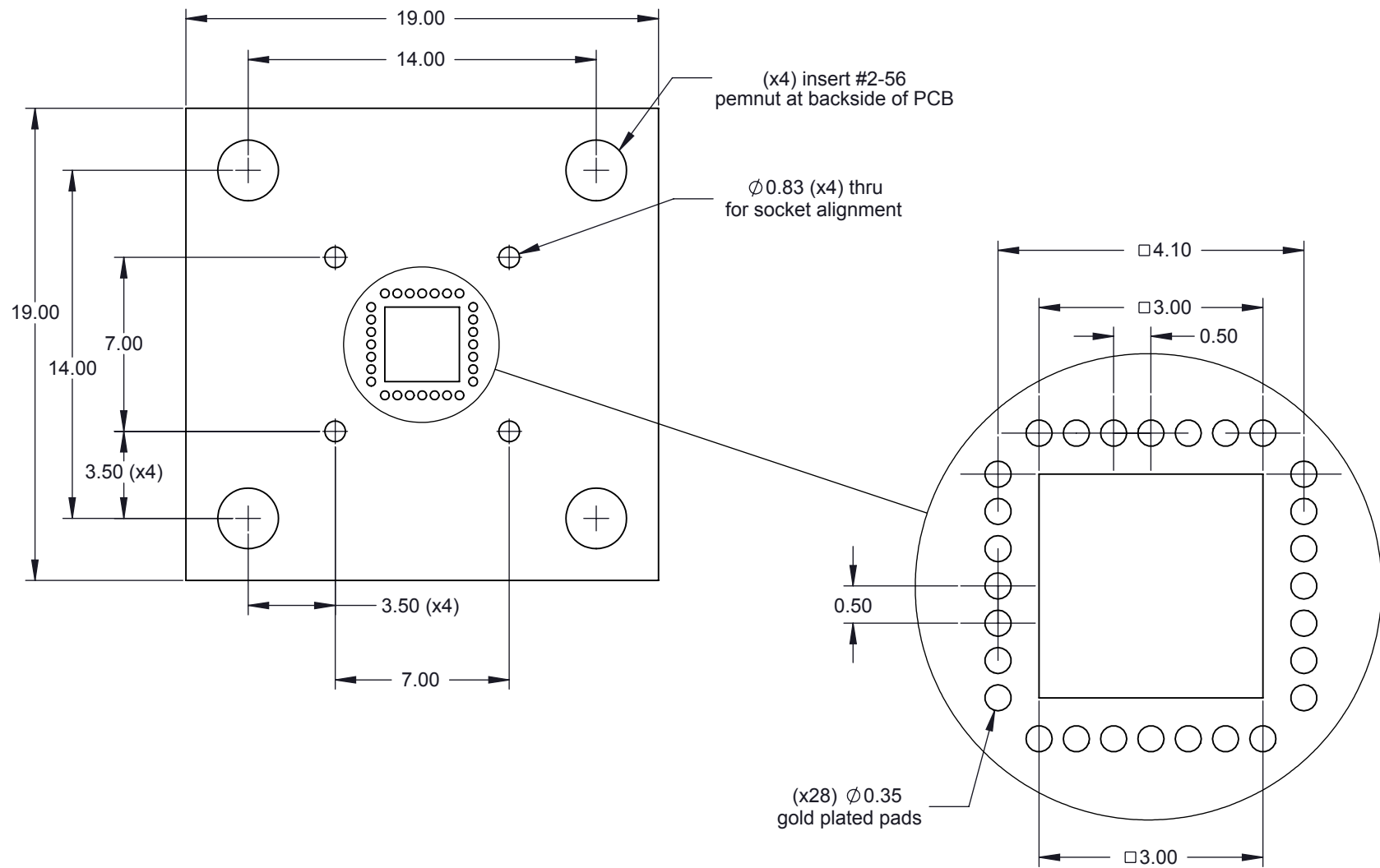
FILE: CBT-QFN-7010 Dwg

SHEET: 2 OF 5

SCALE: 3:1

DATE: 4/4/2011

REV. A



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.

Target PCB Recommendations

Total thickness: 1.6mm min.

Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

CBT-QFN-7010 Drawing



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

Material: N/A
Finish: N/A
Weight: 15.65

STATUS: Released

DRAWN BY: S. Delano

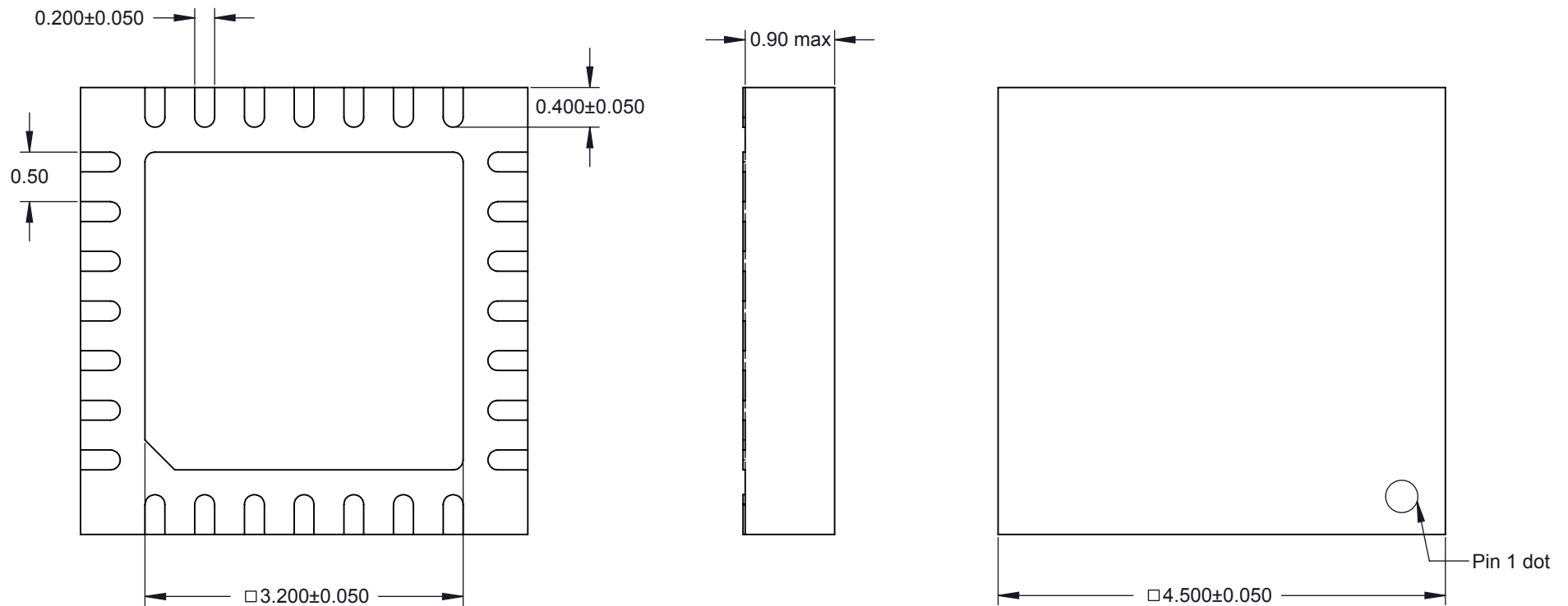
FILE: CBT-QFN-7010 Dwg

SHEET: 3 OF 5

SCALE: 6:1

DATE: 4/4/2011

REV. A



QFN28G

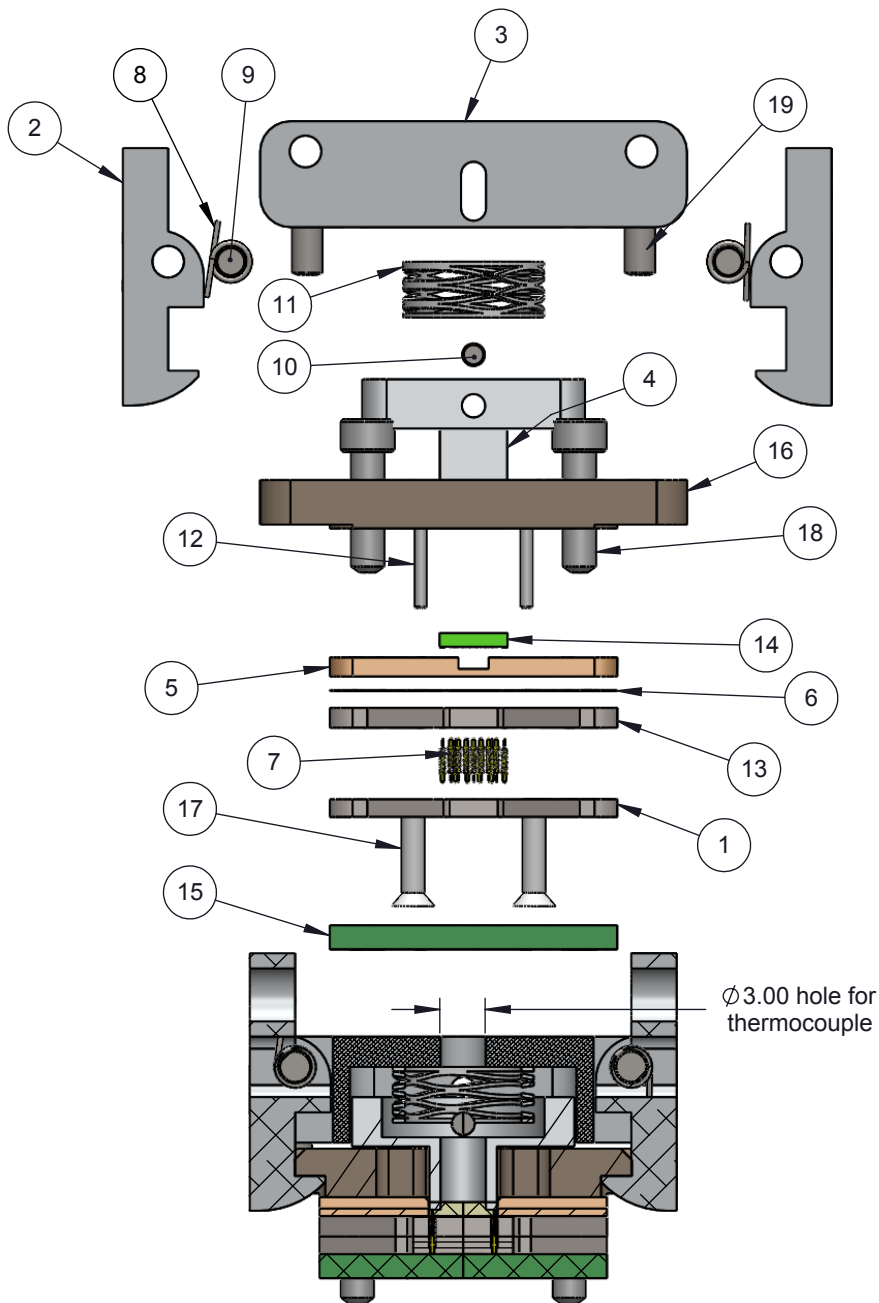
1. Dimensions are in millimeters.

Description: QFN28

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

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

 CBT-QFN-7010 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 15.65	STATUS: Released	SHEET: 4 OF 5	REV. A
		DRAWN BY: S. Delano	SCALE: 16:1	
		FILE: CBT-QFN-7010 Dwg	DATE: 4/4/2011	



ITEM NO.	DESCRIPTION	Material
1	CBT Bottom Guide for 4.5mm x4.5mm 0.5mm pitch QFN28	PEEK Ceramic filled
2	10x10mm clamshell latch	7075-T6, Plate (SS)
3	CBT Snap double latch socket lid for up to 10mm IC	7075-T6 (SN)
4	CBT Compression Plate for 4.5x4.5mm IC	7075-T6 Aluminum Alloy
5	IC Guide for 4.5mm x 4.5mm IC	Ultem 1000
6	Pin orientation Guide for 4.5mm x4.5mm 0.5mm pitch QFN28	Kapton Polyimide
7	SBT-LGA/QFN Pogo Pin, 0.5mm-0.8mm	Contact Mtrl: BeCu, Au Plated over Ni
8	Torsion Spring, 180 0.109" OD, Ccw/Rh	Steel Music Wire
9	Dowel Pin, M2 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
10	Dowel Pin, M1.5 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
11	Wave Spring 0.375" OD, 0.15" ID, 62 lbs/in	Stainless Steel (303)
12	Dowel pin, 1/32" X .25", SS	Chrome Stainless Steel
13	CBT Top Guide for 4.5mm x4.5mm 0.5mm pitch QFN28	PEEK Ceramic filled
14	Customer's chip QFN28 4.5mm x4.5mm 0.5mm pitch	High Temp FR4
15	Customer's target PCB for QFN28 4.5mm x4.5mm, 0.5mm pitch	Material <not specified>
16	CBT double latch Socket Base for 4.5X4.5mm QFN	7075-T6 Aluminum Alloy
17	#0-80 x .25 LG, Flat Head Machine Screw	Stainless Steel (18-8)
18	18-8 Stainless Steel Socket Head Cap Screw 2-56 Thread, 5/16" Length	18-8 Stainless Steel
19	M2 Dowel Pin 4mm SS	Stainless Steel (18-8)

PIN DETAIL



Rev	Date	Initials	Description
A	4/4/11	SD	Original

Description: Skt, Pin Det

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.

CBT-QFN-7010 Drawing



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

Material: N/A
Finish: N/A
Weight: 15.65

STATUS: Released

DRAWN BY: S. Delano

FILE: CBT-QFN-7010 Dwg

SHEET: 5 OF 5

SCALE: 1:1

DATE: 4/4/2011

REV. A