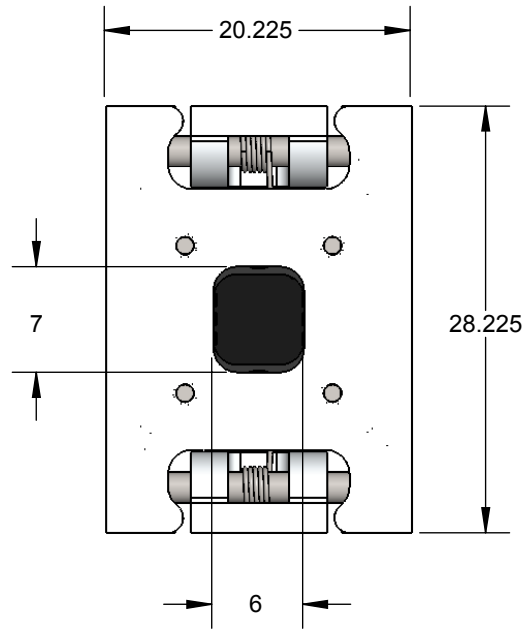
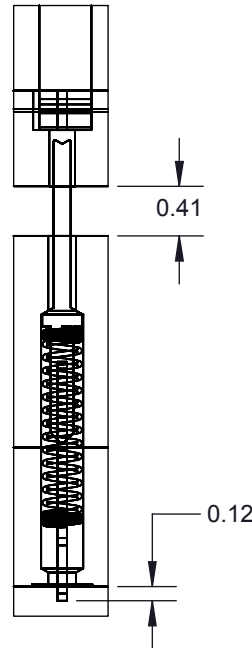


CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

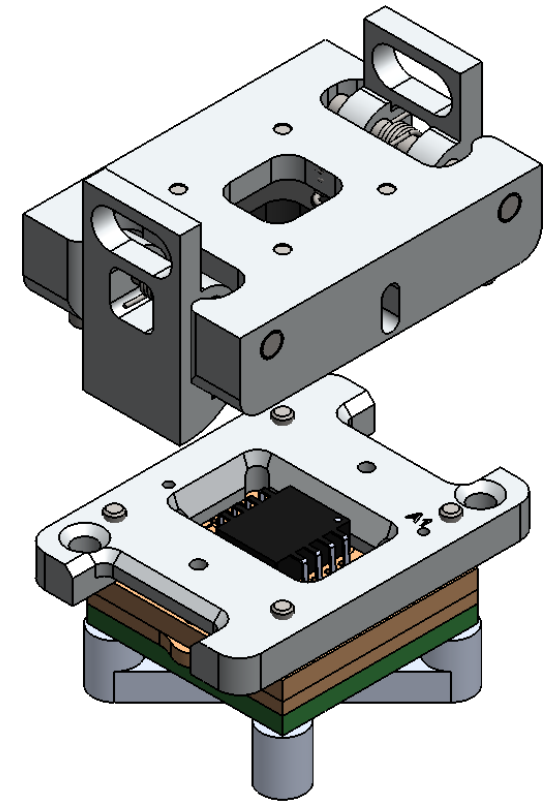
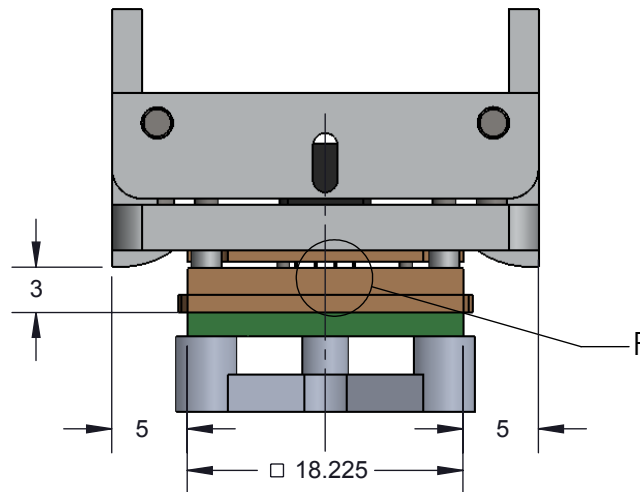
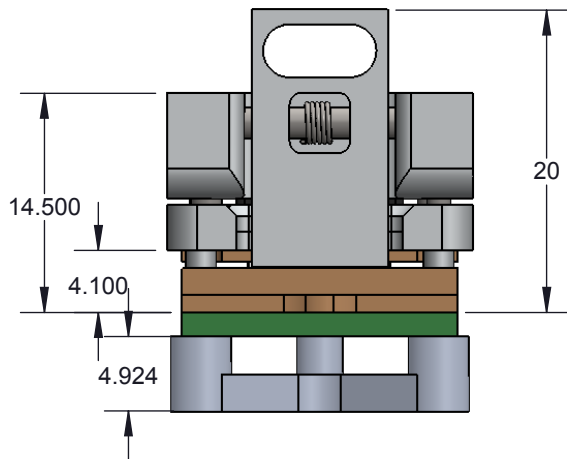


DETAIL P
SCALE 16 : 1



FEATURES:

- Wide temperature range (-55C to +180C)
- High current capability (up to 2.9A)
- 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-SOIC8 10.98mm T_T 1.27mm 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.

CBT-SO-4001 Drawing



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

Material: N/A
Finish: N/A
Weight: 18.73

STATUS: Released

ENG: V. Panavala

FILE: CBT-SO-4001 Dwg

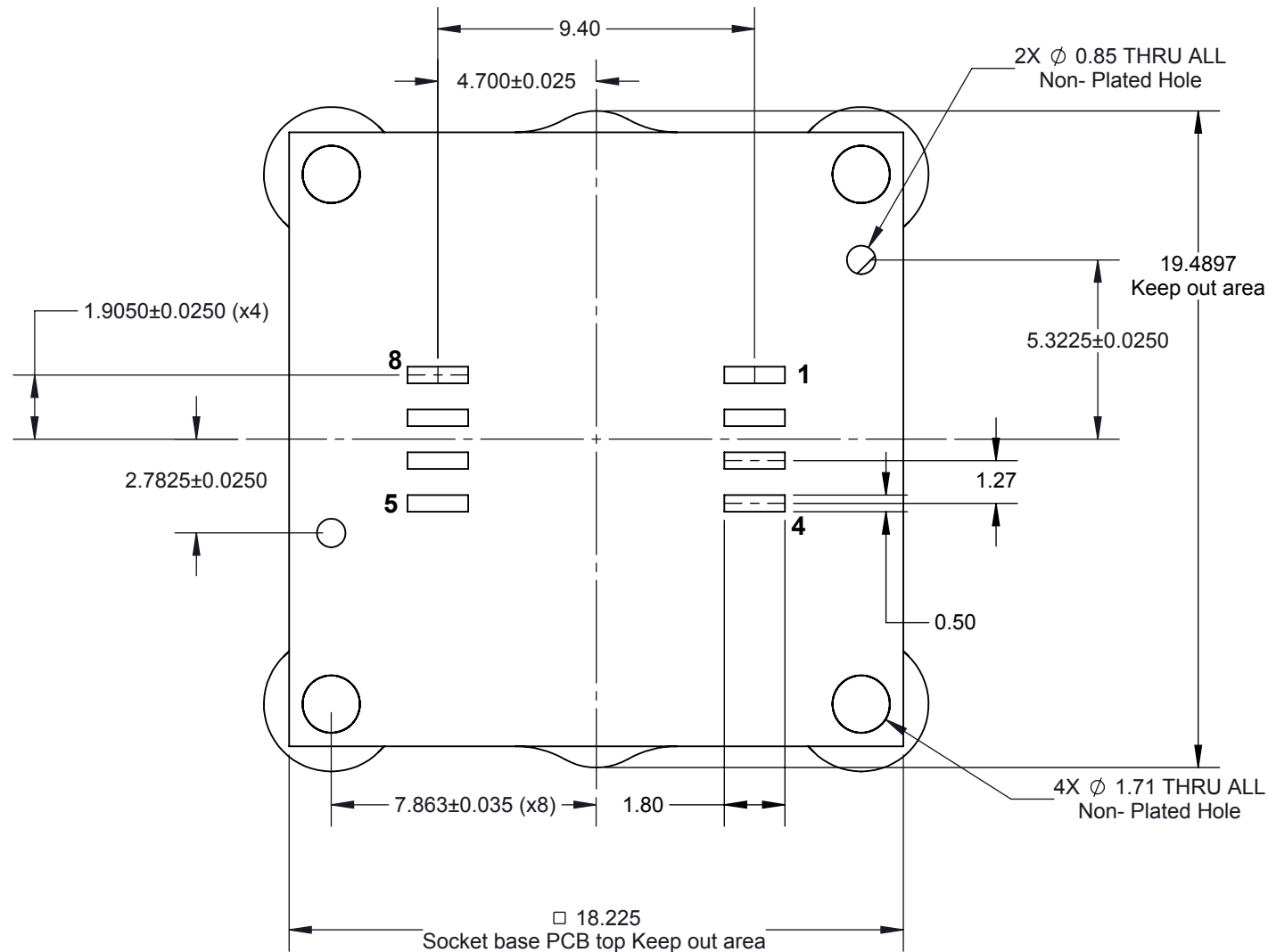
SHEET: 1 OF 5

DRAWN BY: M. Raske

DATE: 08/21/2014

REV. B

SCALE: 2:1



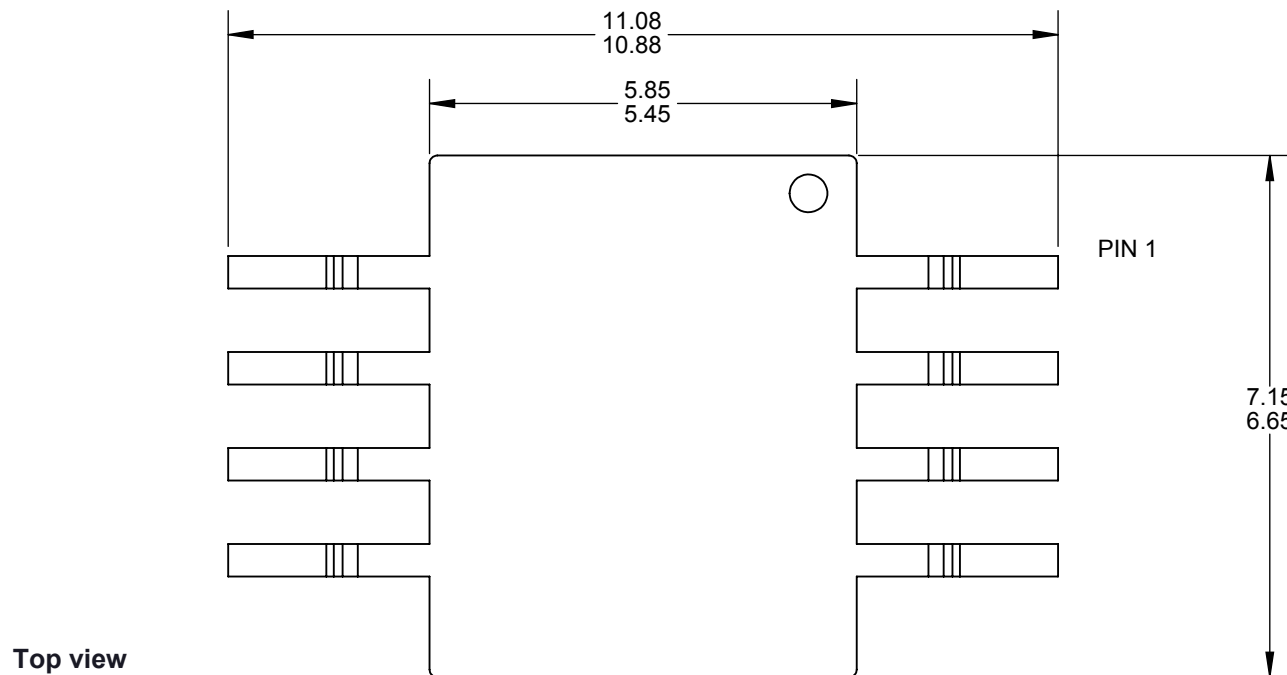
Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish

Description: Recommended PCB Layout

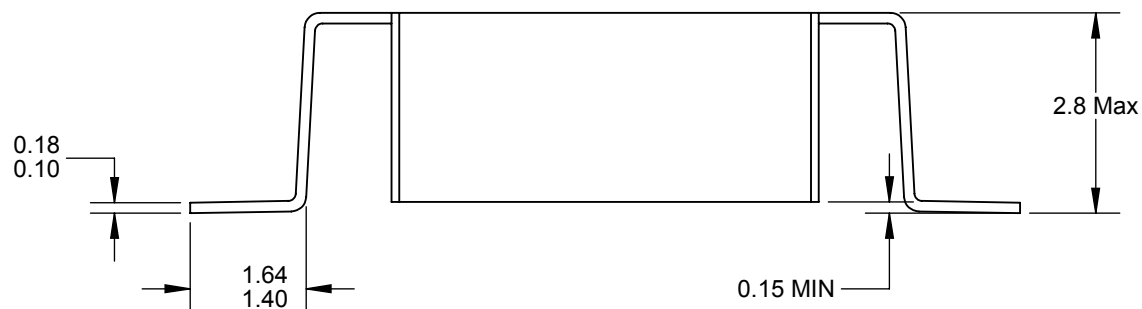
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

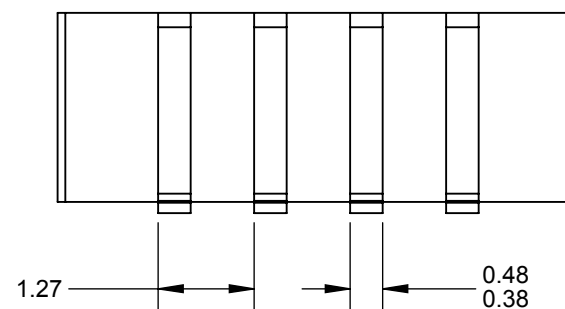
CBT-SO-4001 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 18.73	STATUS: Released	SHEET: 2 OF 5	REV. B
		ENG: V. Panavala	DRAWN BY: M. Raske	SCALE: 5:1
		FILE: CBT-SO-4001 Dwg	DATE: 08/21/2014	



Top view



END View



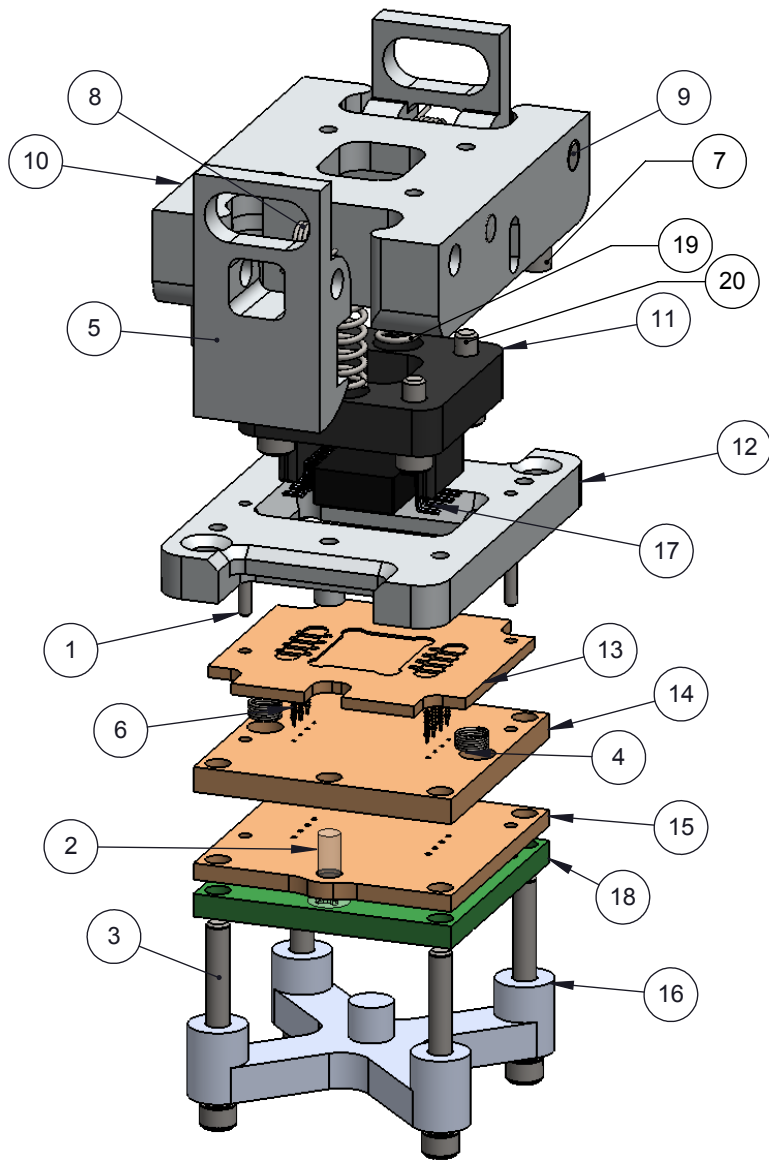
Side View

Description: Compatible BGA

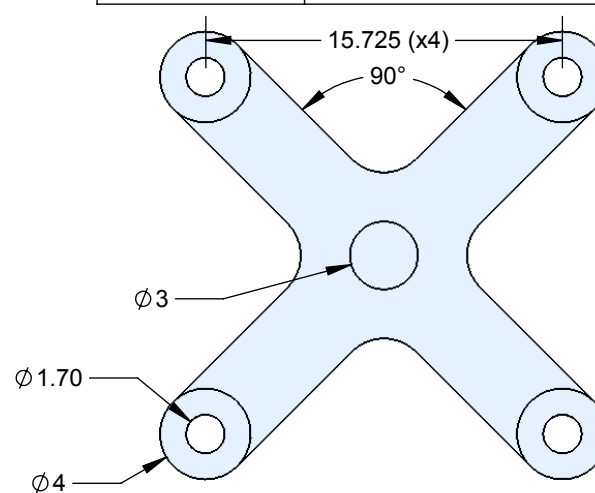
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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

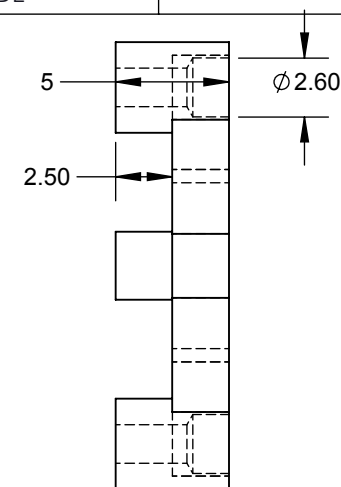
CBT-SO-4001 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 18.73	STATUS: Released	SHEET: 3 OF 5	REV. B
		ENG: V. Panavala	DRAWN BY: M. Raske	SCALE: 10:1
		FILE: CBT-SO-4001 Dwg	DATE: 08/21/2014	



ITEM NO.	DESCRIPTION	Material
1	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
2	Screw, #0-80 X .188", Flat, SS	Stainless Steel (18-8)
3	#0-80 x 0.5, SH Cap Screw	Alloy Steel
4	Floating Guide Spring	Alloy Steel (SS)
5	10x10mm clamshell latch	7075-T6 Aluminum Alloy
6	Stamped Pin, 0.4mm SBT-BGA	N/A
7	M2 Dowel Pin 4mm SS	Stainless Steel (18-8)
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	CBT Snap double latch socket lid for up to 10mm IC	7075-T6 Aluminum Alloy
11	Compression Plate SOIC8 10.98mm T_T	Torlon 5530
12	CBT double latch Socket Base for up to 7mm W posts	7075-T6 Aluminum Alloy
13	Floating guide SOIC8 10.98mm T_T 1.27mm pitch	Semitron MDS 100
14	SOIC8 10.98mm T_T 1.27mm pitch Top spring pin guide	Semitron MDS 100
15	SOIC8 10.98mm T_T 1.27mm pitch Bottom spring pin guide	Semitron MDS 100
16	13x13mm Clamshell Backing Plate	7075-T6 Aluminum Alloy
17	CFE SO8 1.27mm pitch	Material <not specified>
18	PCB SOIC8 10.98mm T_T 1.27mm pitch	High Temp FR4
19	Spring 0.125" OD 0.250" long 0.016" wire	Alloy Steel
20	#0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel



Backing Plate
Top View



Backing Plate
Side View



SBT PIN
scale 16:1

Description: Socket Assy. detail

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-SO-4001 Drawing



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

Material: N/A
Finish: N/A
Weight: 18.73

STATUS: Released
ENG: V. Panavala
FILE: CBT-SO-4001 Dwg

SHEET: 4 OF 5
DRAWN BY: M. Raske
DATE: 08/21/2014

REV. B
SCALE: 2:1

Rev	Date	Initials	Description
A	08/21/14	MR	Original
B	07/16/15	DH	Updated PCB Layout page

Description: Rev History

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.

 CBT-SO-4001 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. B
		ENG: V. Panavala	DRAWN BY: M. Raske	SCALE: 2:1
		FILE: CBT-SO-4001 Dwg	DATE: 08/21/2014	