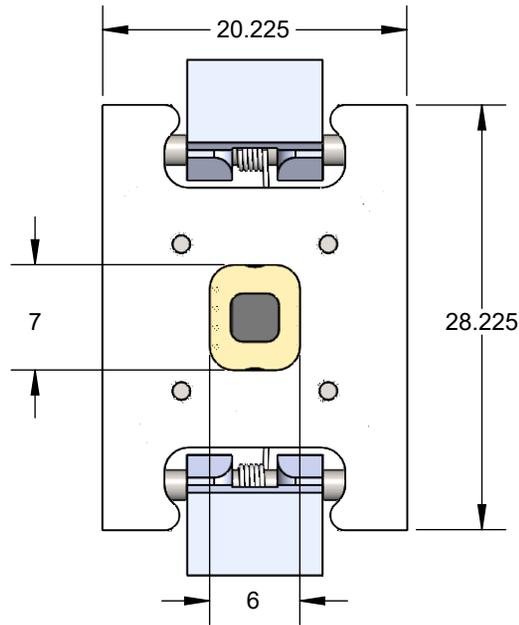
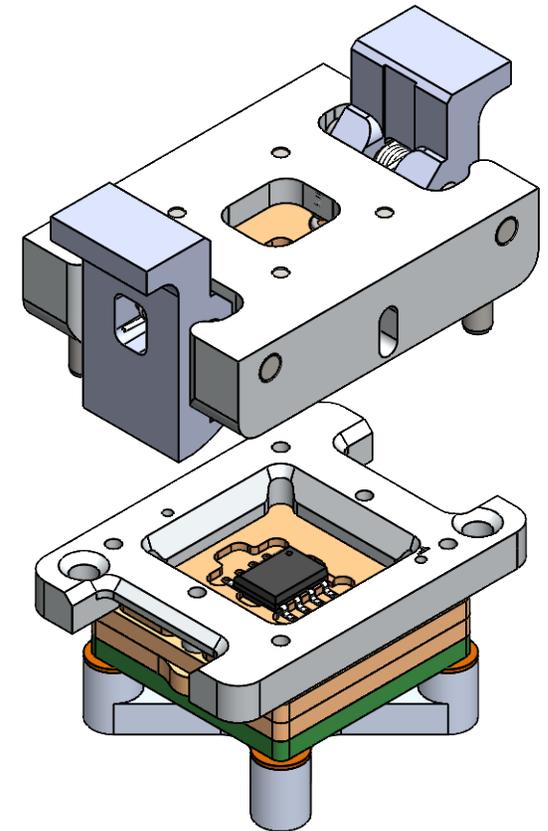
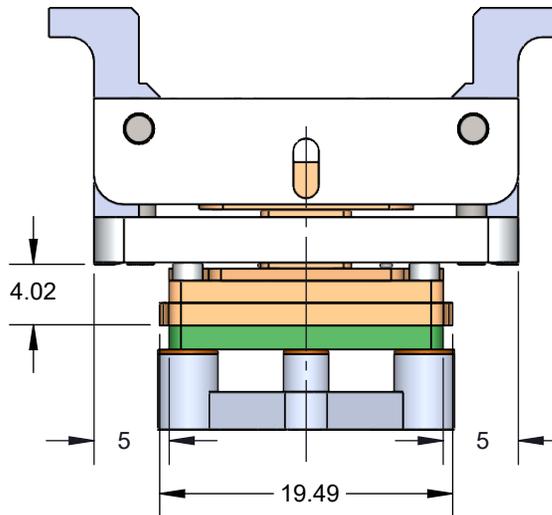
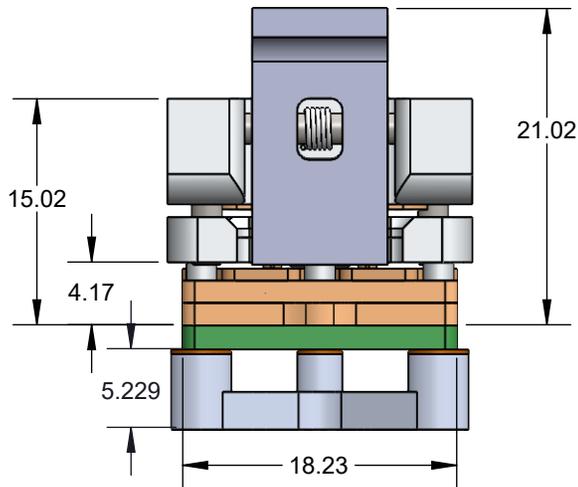


# CBT-SOIC DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



## FEATURES:

- Wide temperature range (-55C to +180C)
- High current capability ( 2A)
- 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 6mm tip to tip, 3.9x4.9mm body 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-4015 Drawing



©2024 Ironwood Electronics, Inc.  
Tele: (800) 404-0204  
www.ironwoodelectronics.com

Material: N/A  
Finish: N/A  
Weight: 18.33

STATUS: Released

ENG: S. Huang

FILE: CBT-SO-4015 Dwg

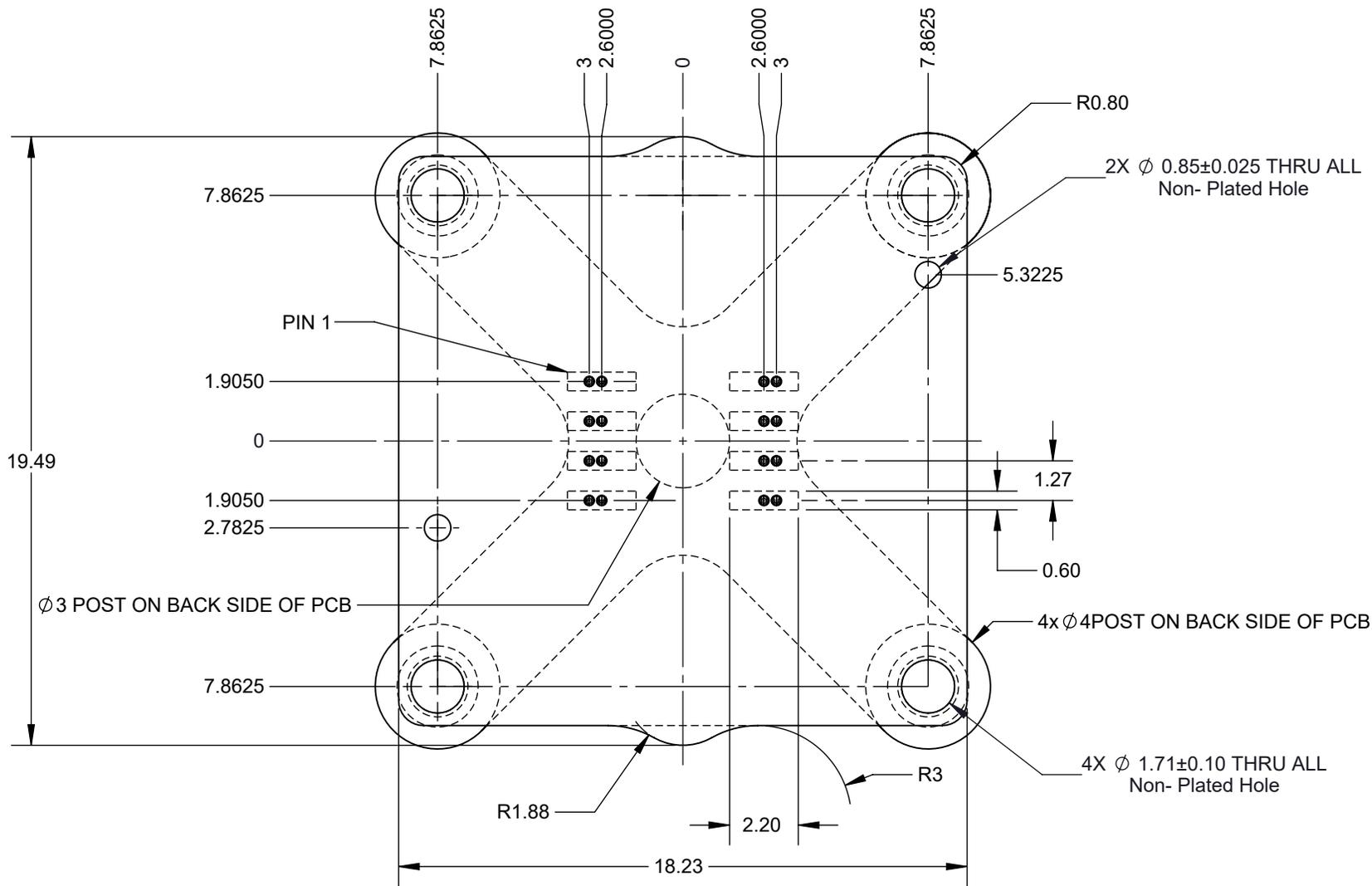
SHEET: 1 OF 5

DRAWN BY: T. Coulibaly

DATE: 07/08/2024

REV. A

SCALE: 2:1



**Target PCB Recommendations**

Total thickness: 1.6mm - 3.2mm

Plating: Gold or Solder finish

PCB pad height: same or higher than solder mask

**PCB pads must be free of any special/protective coatings such as OSP**

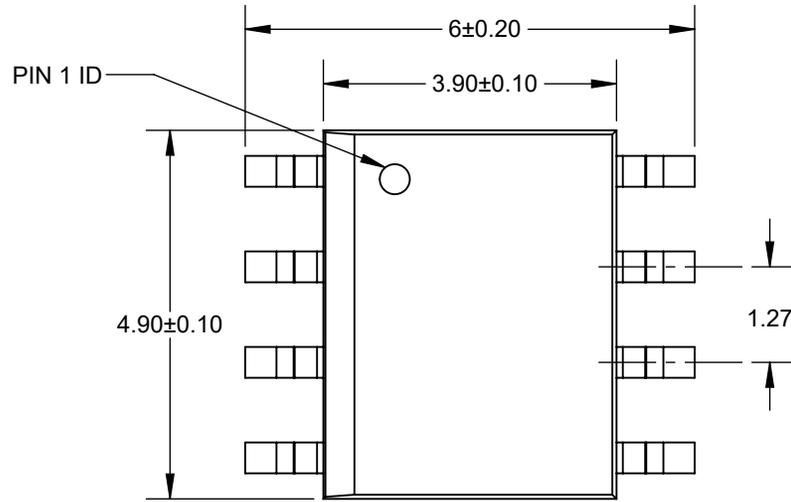
**Description: Recommended PCB Layout**

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

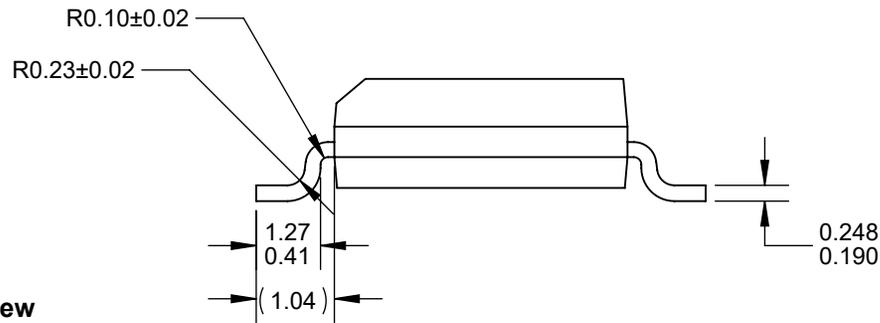
Tolerances: Hole diameters  $\pm 0.03\text{mm}$  [ $\pm 0.001"$ ], Pitches (from true position)  $\pm 0.025\text{mm}$  [ $\pm 0.001"$ ], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.13\text{mm}$  [ $\pm 0.005"$ ] unless stated otherwise. Materials and specifications are subject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

 <p>©2024 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p><b>CBT-SO-4015 Drawing</b></p>	<p>Material: N/A Finish: N/A Weight: 18.33</p>	<p>STATUS: Released ENG: S. Huang FILE: CBT-SO-4015 Dwg</p>	<p>SHEET: 2 OF 5 DRAWN BY: T. Coulibaly DATE: 07/08/2024</p>	<p>REV. A SCALE: 5:1</p>

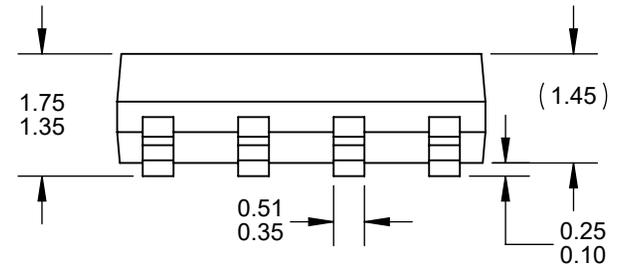
# IRONWOOD PACKAGE CODE:SO8K



Top view



Top View



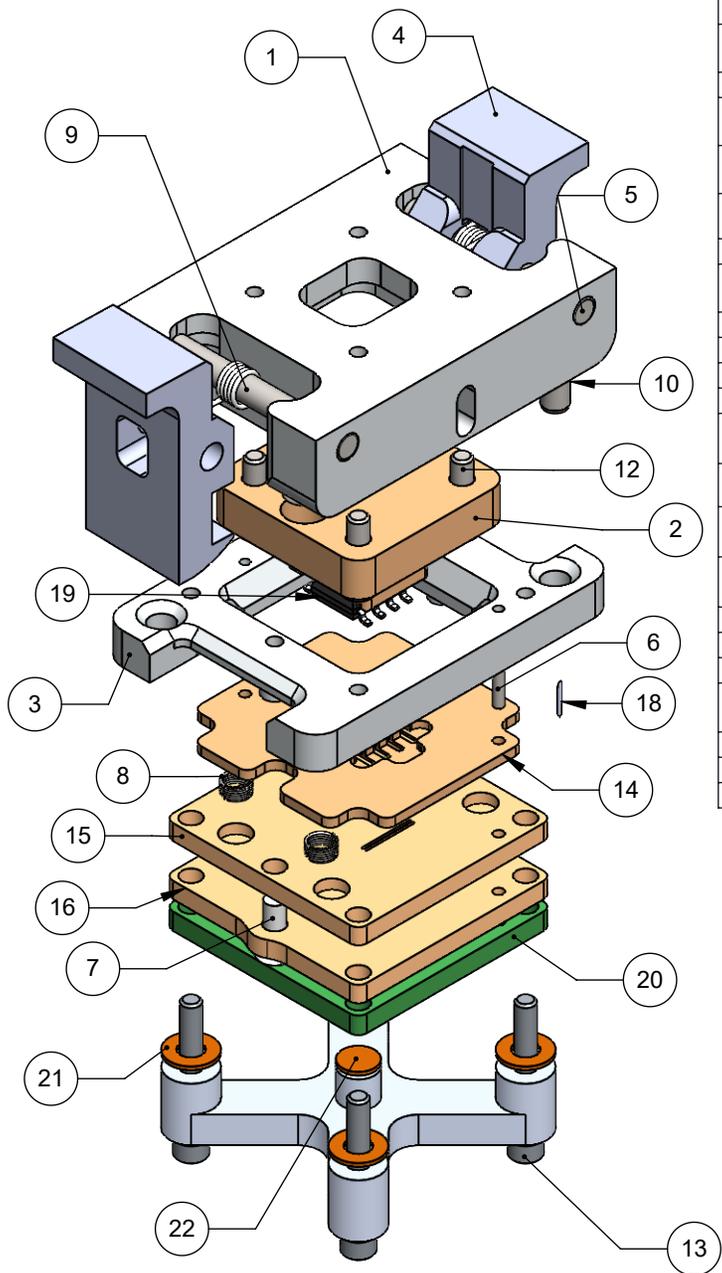
Side View

## Description: Compatible SOIC

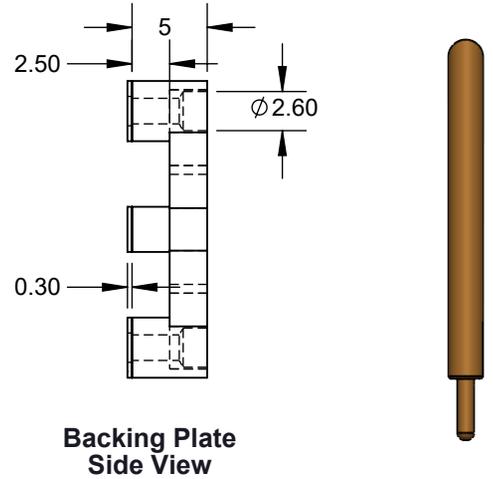
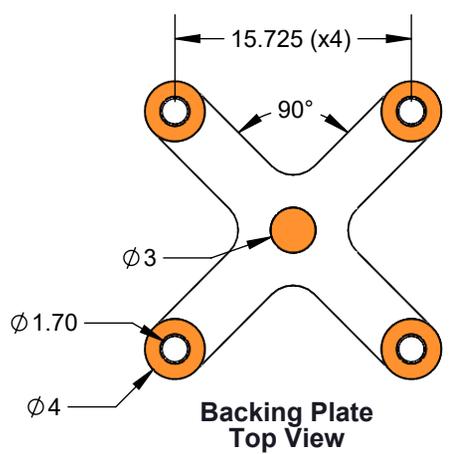
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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-SO-4015 Drawing</b> ©2024 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 18.33	STATUS: Released ENG: S. Huang FILE: CBT-SO-4015 Dwg	SHEET: 3 OF 5 DRAWN BY: T. Coulibaly DATE: 07/08/2024	REV. A SCALE: 10:1



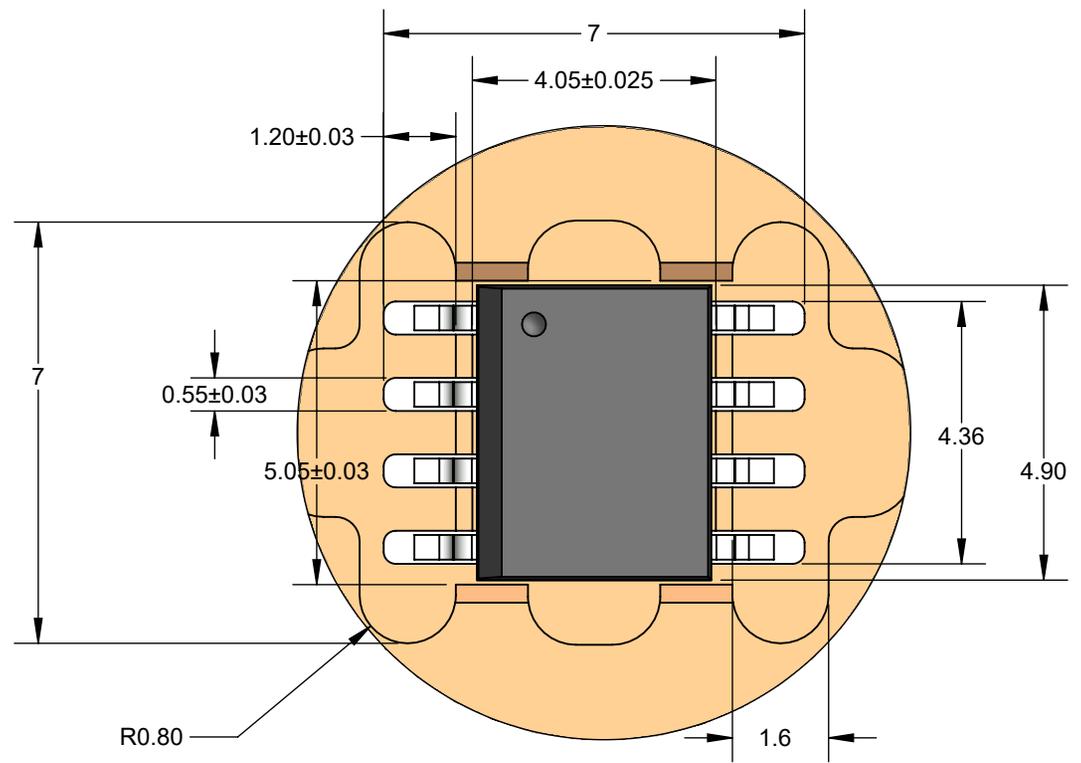
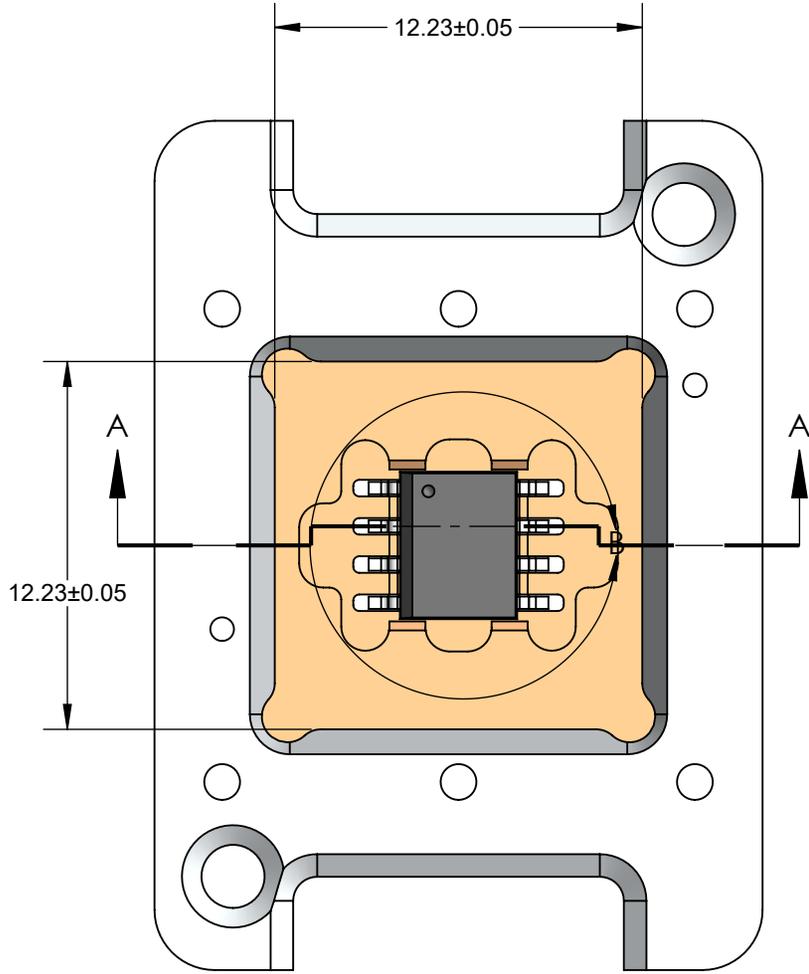
ITEM NO.	DESCRIPTION	Material
1	CBT Snap double latch socket lid for up to 10mm IC	7075-T6 Aluminum Alloy
2	Compression Plate SOIC8 6mm TTT	Torlon 5530
3	CBT double latch Socket Base for up to 7mm W posts	7075-T6 Aluminum Alloy
4	Latch, 17mm Tall, 9mm Wide, T-Bar Top, 2mm Hinge	7075-T6 Alumium Alloy
5	Dowel Pin, M2 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
6	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
7	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled
8	Floating Guide Spring	Alloy Steel (SS)
9	Torsion Spring, 180 0.109" OD, Ccw/Rh	Steel Music Wire
10	Dowel Pin, 6 lg x 2mm dia. 18-8 SS	Stainless Steel (18-8)
11	Spring 0.125" OD 0.250" long 0.016" wire	Alloy Steel
12	#0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
13	#0-80 X 7/16" LG, SOC HD CAP SCREW 18-8 SS	Stainless Steel (304)
14	Floating guide SOIC8 6mm tip to tip 3.9x4.9mm body 1.27mm pitch	Semitron MDS 100
15	Middle pin guide, SOIC8, 6mm tip to tip, 3.9x4.9mm body, 1.27mm pitch	Semitron MDS 100
16	Bottom pin guide for SOIC8 1.27mm pitch	Semitron MDS 100
17	13x13mm Clamshell Backing Plate	7075-T6 Aluminum Alloy
18	Signal Integrity, B1512-GH	Material <not specified>
19	SOIC8, 6MM TIP TO TIP, 3.9X4.9MM BODY, 1.27MM PITCH	Material <not specified>
20	PCB SOIC8 6mm T_T 1.27mm pitch	High Temp FR4
21	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
22	Insulating washer, 3mm OD.	Kapton Polyimide/Cirlex



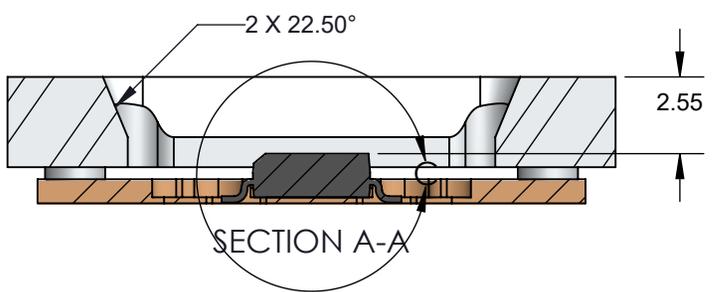
**Description: Socket Assy, detail**

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.

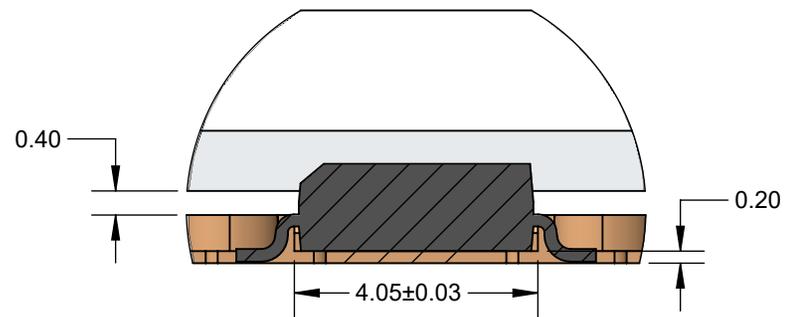
 <b>CBT-SO-4015 Drawing</b> ©2024 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 18.33	STATUS: Released ENG: S. Huang FILE: CBT-SO-4015 Dwg	SHEET: 4 OF 5 DRAWN BY: T. Coulibaly DATE: 07/08/2024	REV. A SCALE: 2:1
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DETAIL B  
SCALE 8 : 1



SECTION A-A



DETAIL C  
SCALE 8 : 1

**Description: CBT-SOIC8 6mm tip to tip, 3.9x4.9mm body 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.

 <b>CBT-SO-4015 Drawing</b> ©2024 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 18.33	STATUS: Released ENG: S. Huang FILE: CBT-SO-4015 Dwg	SHEET: 5 OF 5 DRAWN BY: T. Coulibaly DATE: 07/08/2024	REV. A SCALE: 4:1