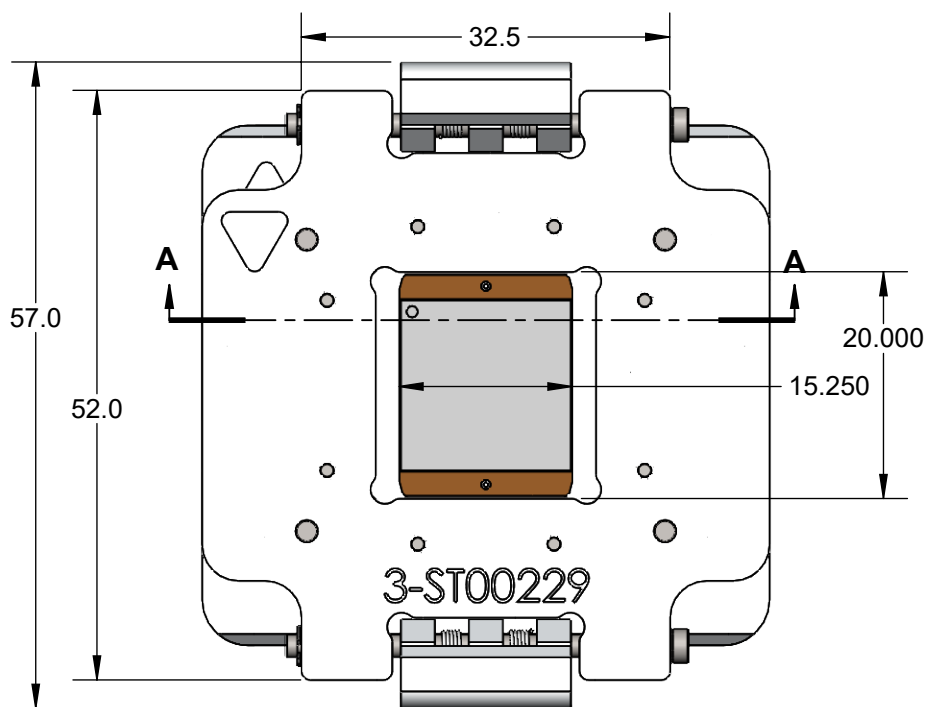
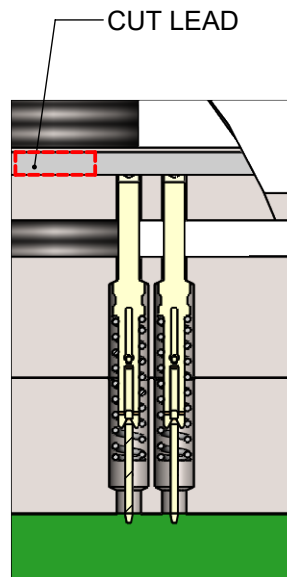


CBT-SO DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

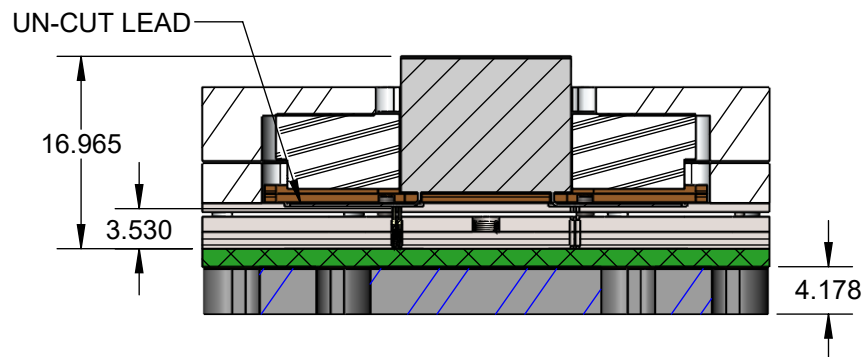


FEATURES:

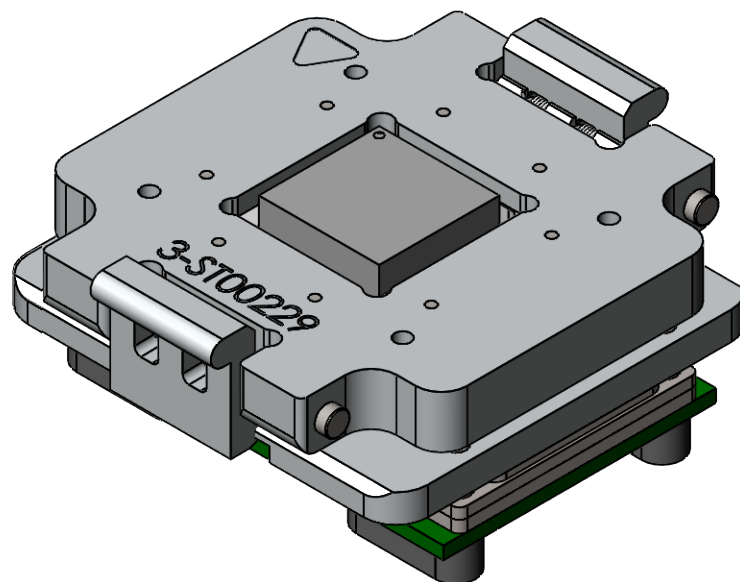
- Wide temperature range (-55C to +180C)
- High current capability (up to 4A)
- Excellent signal integrity at high frequencies
- Low and stable contact resistance for reliable production yield
- Highly compliant to accommodate wide co-planarity variations
- Automated probe manufacturing enables low cost and short lead time



PIN DETAIL
TWO PINS PER LEAD



SECTION A-A



Description: CBT-SO20 34.5/17.7mm T2T 15x15mm body 1.27mm pitch

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

Tolerances: All tolerances $\pm 0.25\text{mm}$ [± 0.01 "] unless stated otherwise. Materials and specifications are subject to change without notice.

CBT-SO-4005 Drawing



©2017 Ironwood Electronics, Inc.
Tele: (800) 404-0204
www.ironwoodelectronics.com

Material: Material <not specified>
Finish:
Weight: 69.22

STATUS: Released

ENG: S. Huang

FILE: CBT-SO-4005 Dwg

SHEET: 1 OF 6

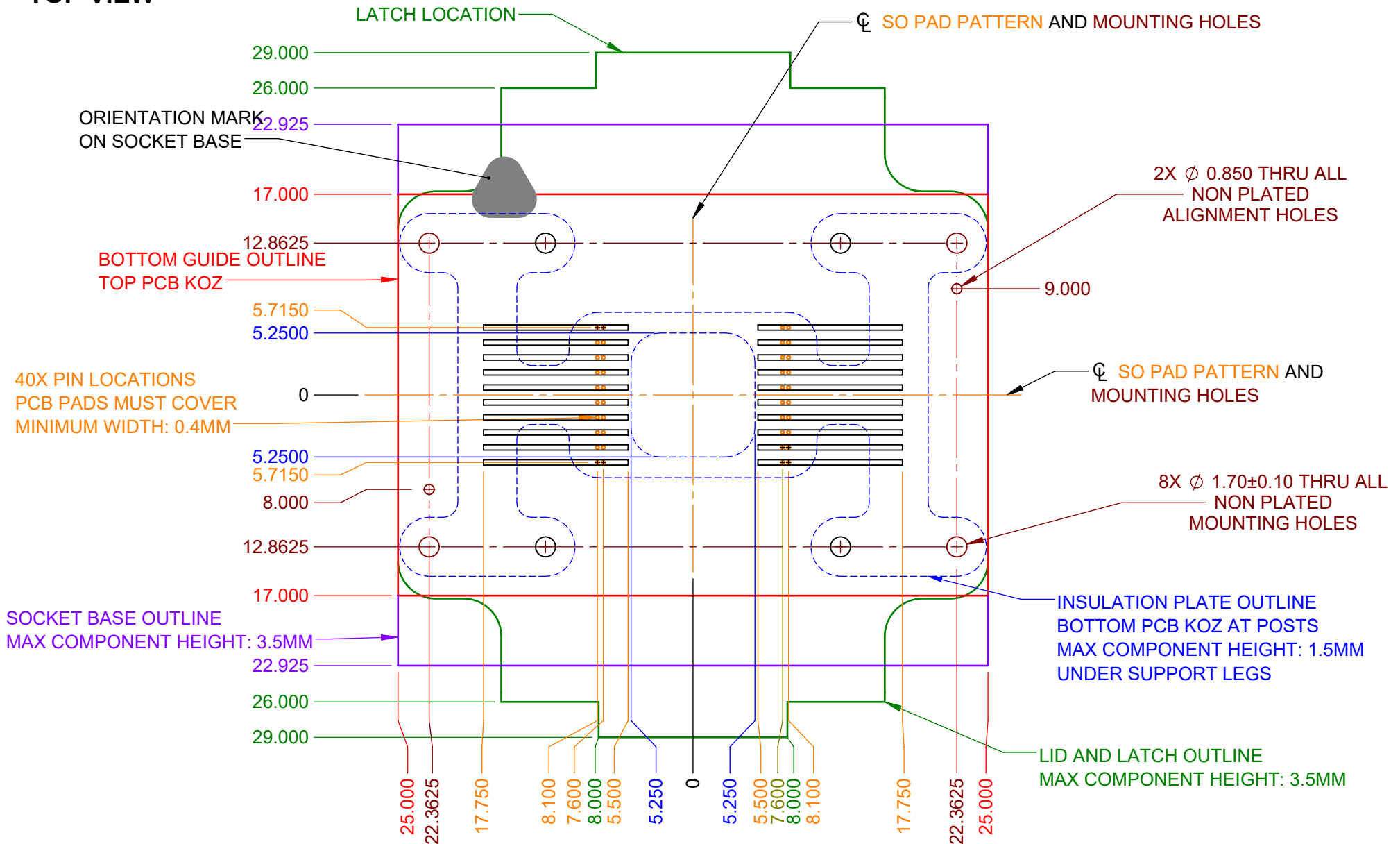
DRAWN BY: M. Raske

DATE: 10/30/2017

REV. A

SCALE: 3:2


TOP VIEW

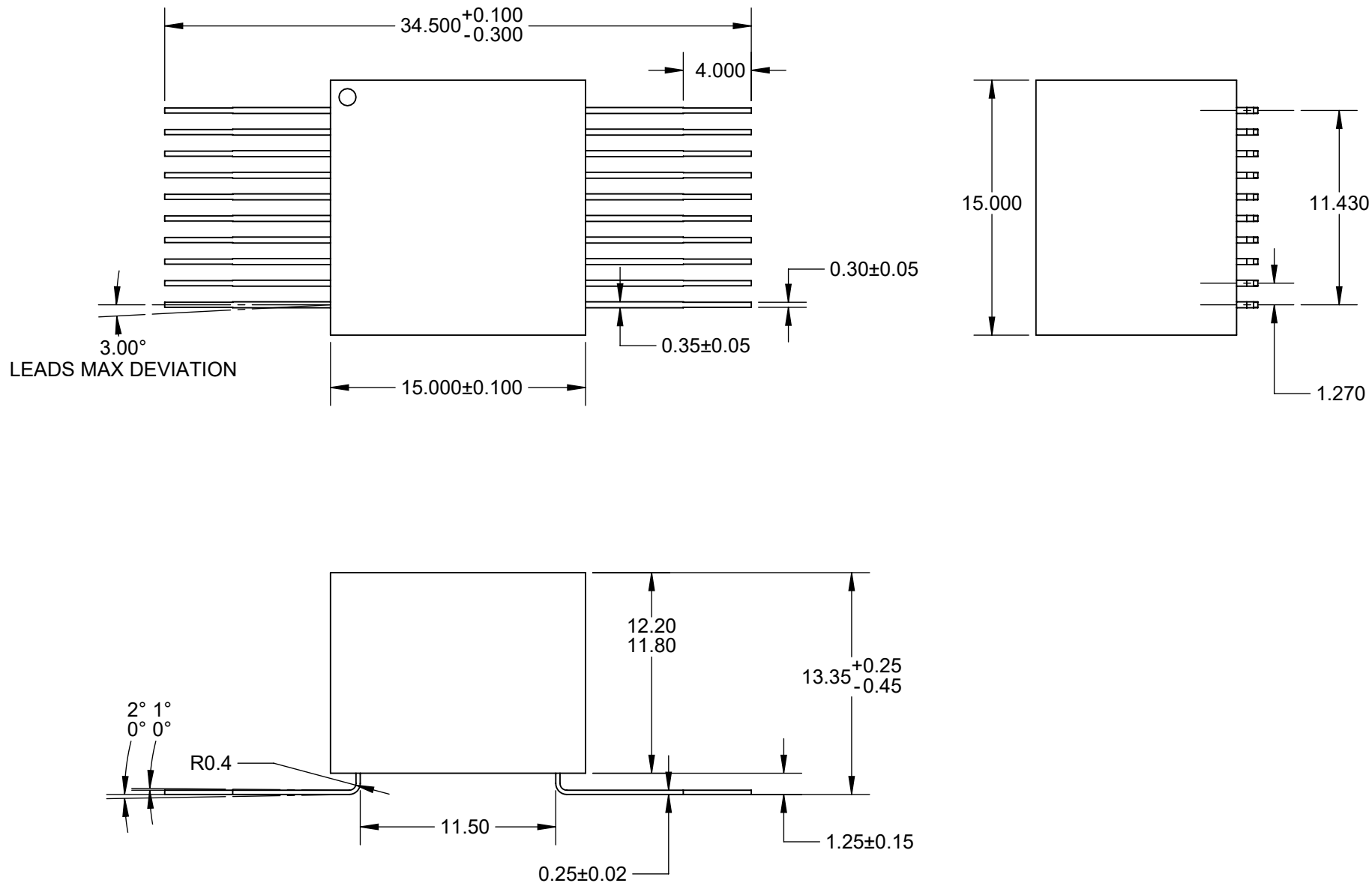


Description: CBT-SO20 34.5/17.7mm T2T 15x15mm body 1.27mm pitch

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) $\pm 0.0254\text{mm}$ [$\pm 0.001"$],
 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.

TARGET PCB RECOMMENDATIONS:
MINIMUM THICKNESS: 1.6MM
PLATING: GOLD OR SOLDER


CBT-SO-4005 Specification		Material: Material <not specified>		STATUS: Released		SHEET: 2 OF 6		REV. A	
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: Weight: 69.22		ENG: S. Huang		DRAWN BY: M. Raske		SCALE: 2.25:1	
				FILE: CBT-SO-4005 Dwg		DATE: 10/30/2017			

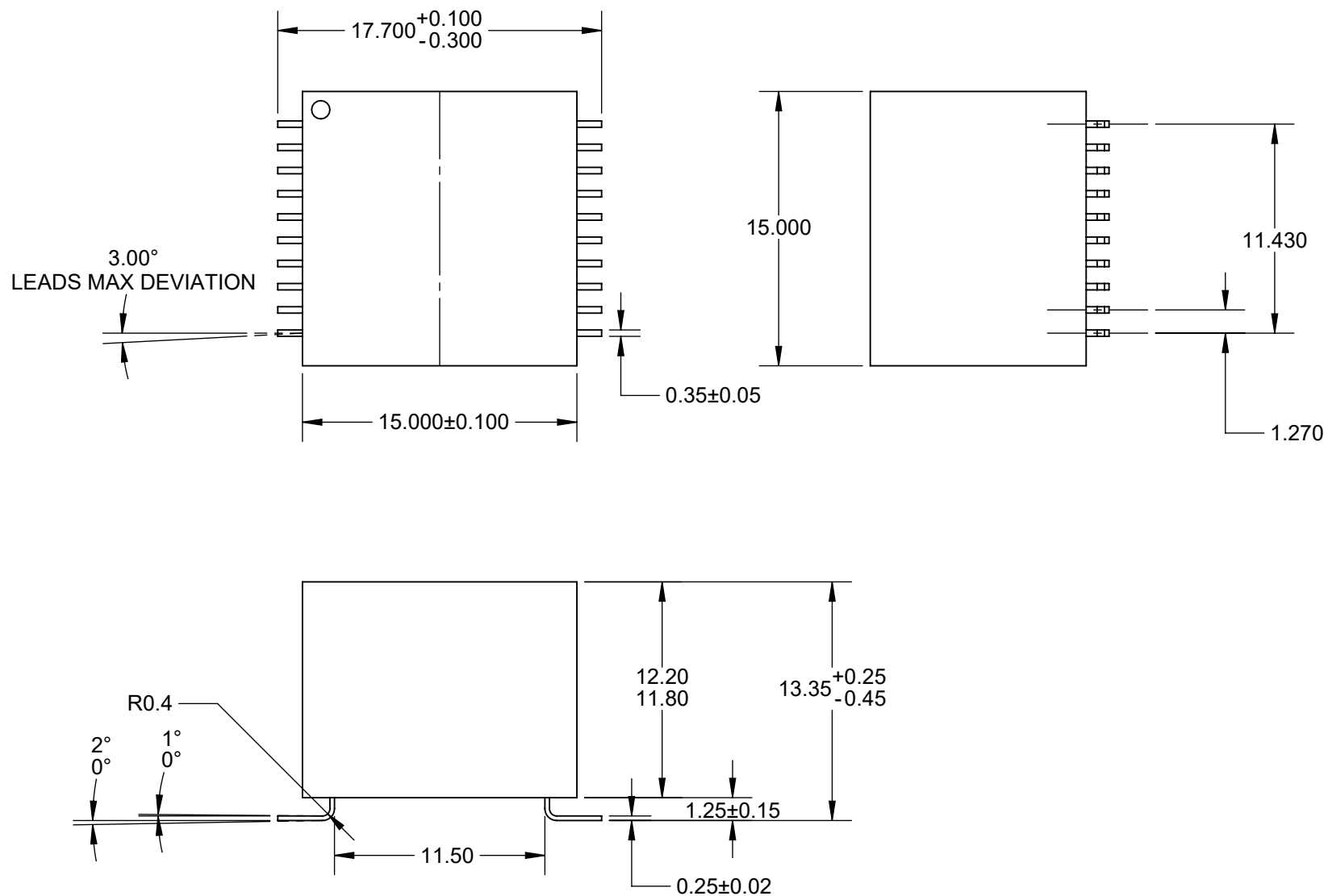


Description: Compatible Device

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

Tolerances: All tolerances $\pm 0.025\text{mm}$ [$\pm 0.001"$] unless stated otherwise. Materials and specifications are subject to change without notice.


CBT-SO-4005 Drawing  ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 69.22	STATUS: Released	SHEET: 3 OF 6	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: CBT-SO-4005 Dwg	DATE: 10/30/2017	

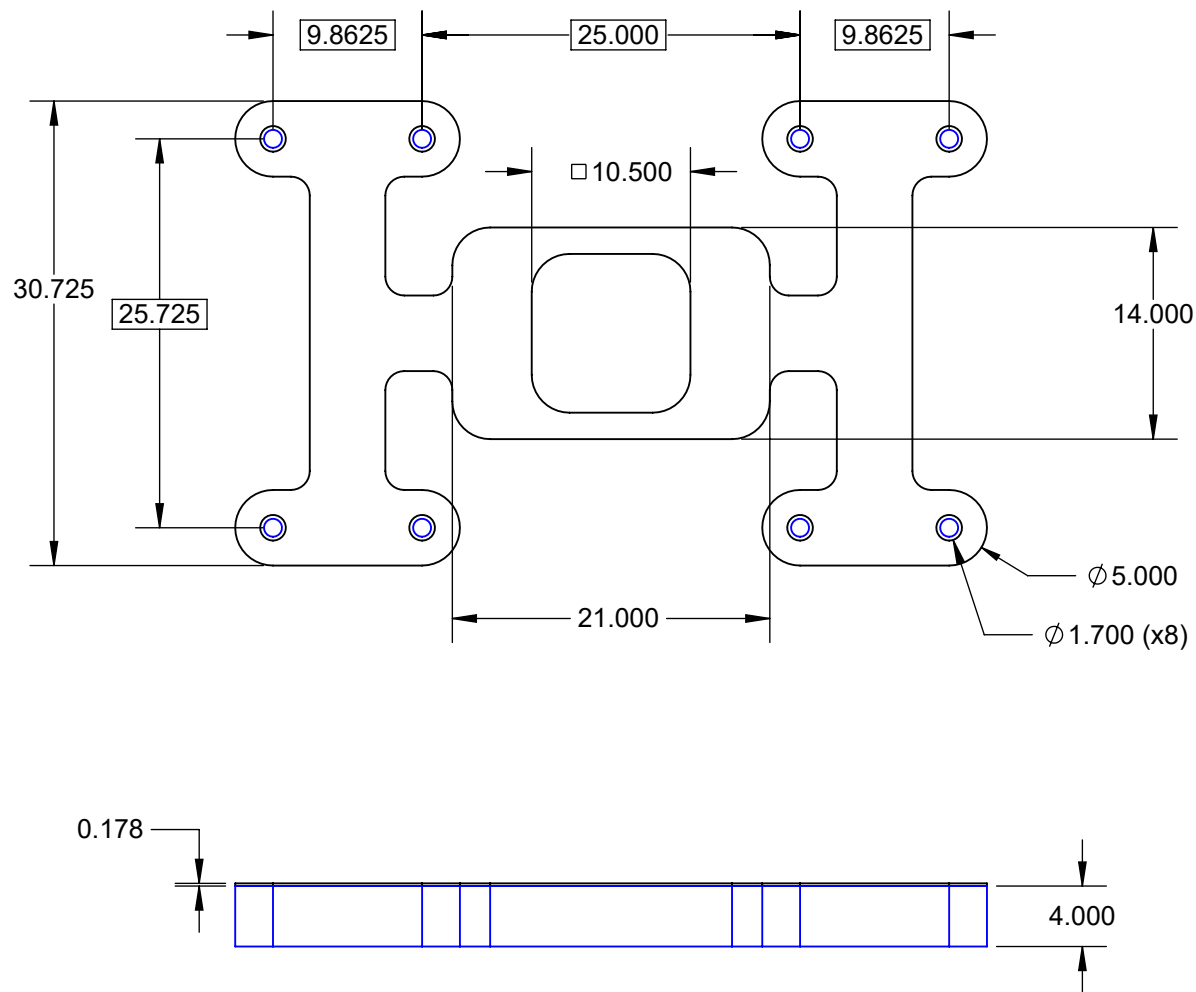


Description: Alternative Compatible Device

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

Tolerances: All tolerances $\pm 0.025\text{mm}$ [± 0.001 "] unless stated otherwise. Materials and specifications are subject to change without notice.


CBT-SO-4005 Drawing  ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 69.22	STATUS: Released	SHEET: 4 OF 6	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: CBT-SO-4005 Dwg	DATE: 10/30/2017	

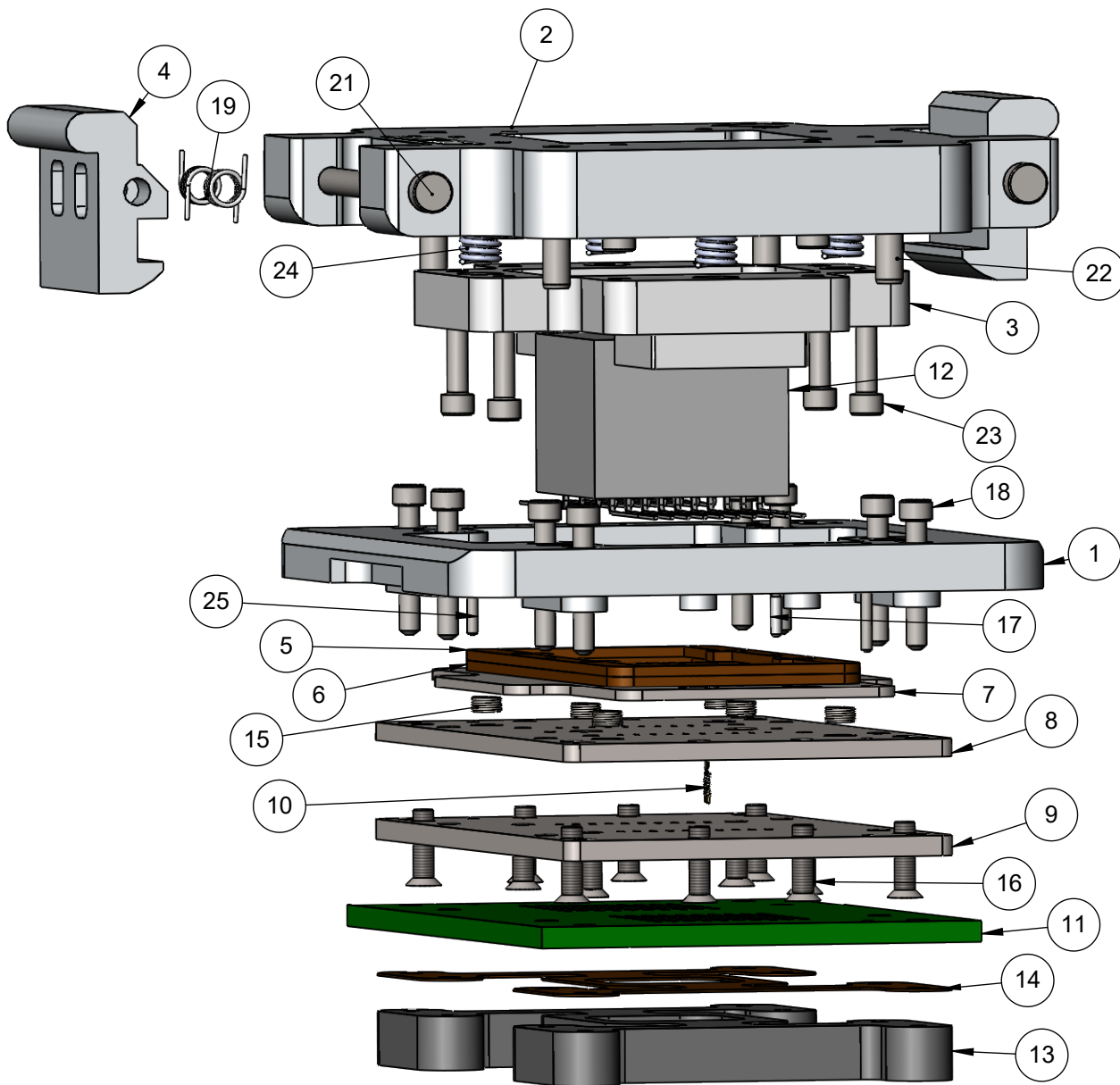


Description: Insulation plate

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-SO-4005 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 69.22	STATUS: Released	SHEET: 5 OF 6	REV. A
		DRAWN BY: M. Raske	SCALE: 2:1	
		FILE: CBT-SO-4005 Dwg	DATE: 10/30/2017	




ITEM NO.	DESCRIPTION	Material
1	Socket base 34.5mm tip to tip SO20	7075-T6 Alumium Alloy
2	Clamshell Socket Lid SOIC20 socket	7075-T6 Alumium Alloy
3	Compression plate 34.5mm tip to tip 1.27mm pitch SO20	PEEK Ceramic filled (No exception)
4	Clamshell Latch Snap Lid Socket	7075-T6 Alumium Alloy
5	IC guide top	Kapton Polyimide/Cirlex
6	IC guide bottom	Kapton Polyimide/Cirlex
7	Floating guide 34.5mm tip to tip SO20 1.27mm pitch	PEEK
8	Middle guide SO20 1.27mm pitch	PEEK
9	Bottom guide SO20 1.27mm pitch	PEEK
10	SBT Pin, SBT-BGA 0.5mm-0.8mm	
11	Target PCB SO20 1.27mm pitch 34.5mm tip to tip 15mm body to body	High Temp FR4
12	SO20 34.5/17.7mm T2T 15x15mm body 1.27mm pitch	
13	Backing Plate 34.5mm tip to tip SO20 1.27mm pitch	7075-T6 Alumium Alloy
14	Insulation spacer 34.5mm tip to tip SO20 1.27mm pitch	Kapton Polyimide/Cirlex
15	Floating Guide Spring	Alloy Steel (SS)
16	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
17	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel
18	18-8 Stainless Steel Socket Head Cap Screw 0-80 3/8" length	Stainless Steel (18-8)
19	Coil Spring, 180 0.109" OD, SS	Stainless Steel (302)
20	Snap ring for 2mm Hinge pin 0.15" OD	
21	Hinge Pin, M2 X 32.5mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
22	Dowel Pin, 6 lg x 2mm dia. 18-8 SS	Stainless Steel (18-8)
23	#0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
24	302SS Comp. Spring .375" Length, .125" OD, .016" Wire Dia.	Material <not specified>
25	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
26	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled

Description: Socket Assy.

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

Tolerances: Materials and specifications are subject to change without notice.

CBT-SO-4005 Drawing  ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 69.22	STATUS: Released ENG: S. Huang FILE: CBT-SO-4005 Dwg	SHEET: 6 OF 6 DRAWN BY: M. Raske DATE: 10/30/2017	REV. A SCALE: 2:1
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