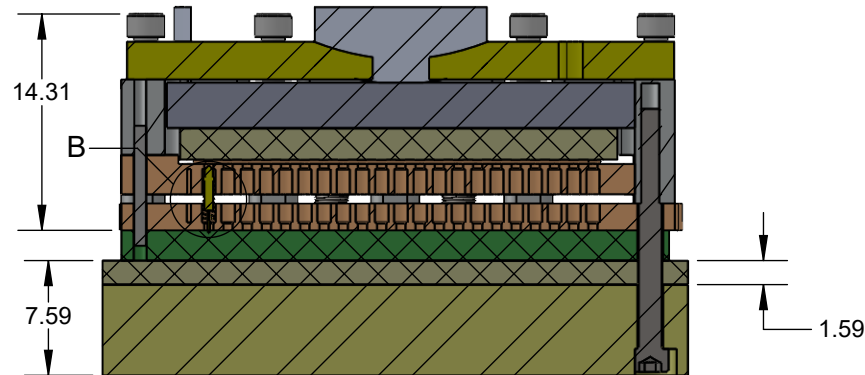
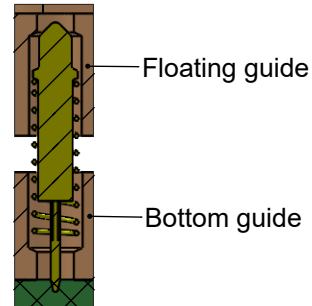
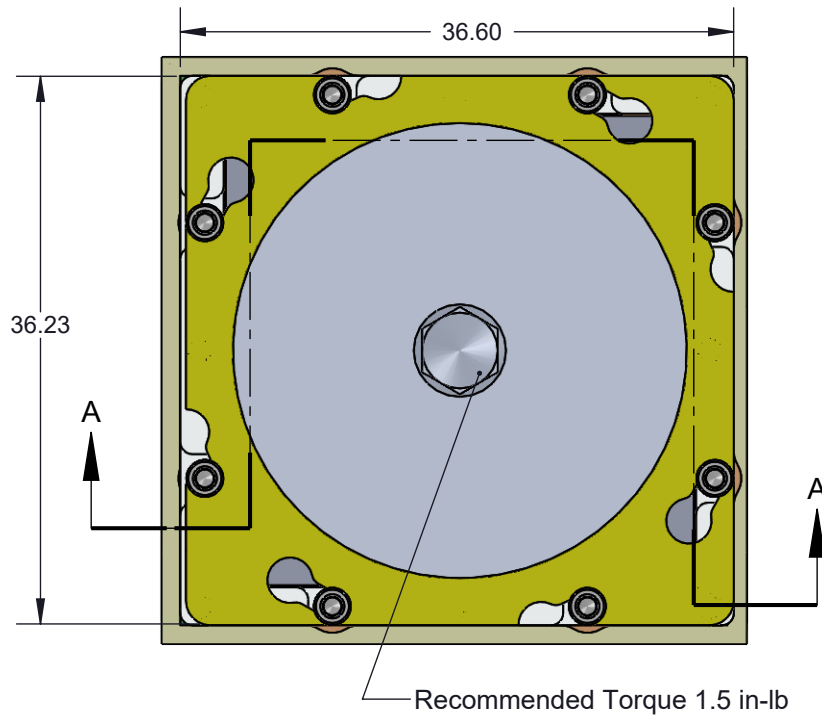
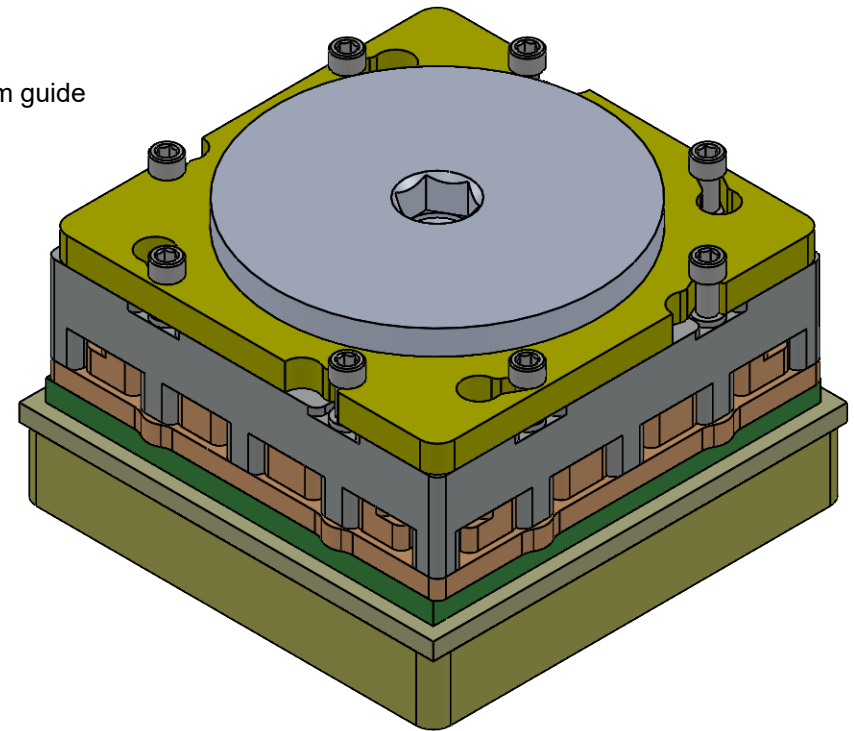


SBT-LCC DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



- 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



Description: SBT-LCC for 1.15x1.15 inch 0.05 inch pitch LCC84

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.

SBT-LCC-1001 Drawing



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

Material: Material <not specified>
Finish: N/A
Weight: 68.23

STATUS: Released

ENG: S. Huang

FILE: SBT-LCC-1001 Dwg

SHEET: 1 OF 5

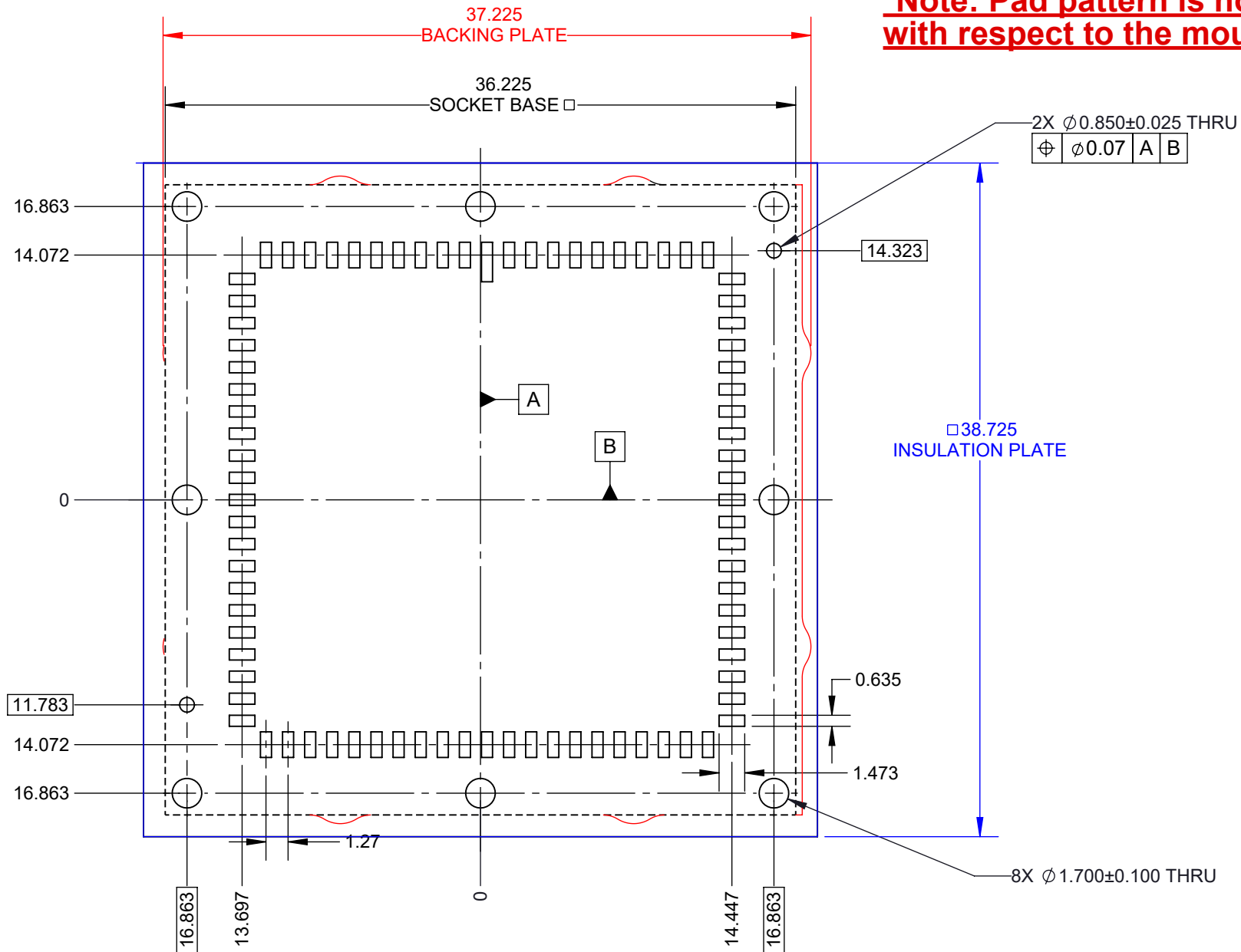
DRAWN BY: M. Raske

DATE: 7/12/2023

REV. A

SCALE: 2:1

***Note: Pad pattern is not symmetrical with respect to the mounting holes.**



Description: Recommended 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

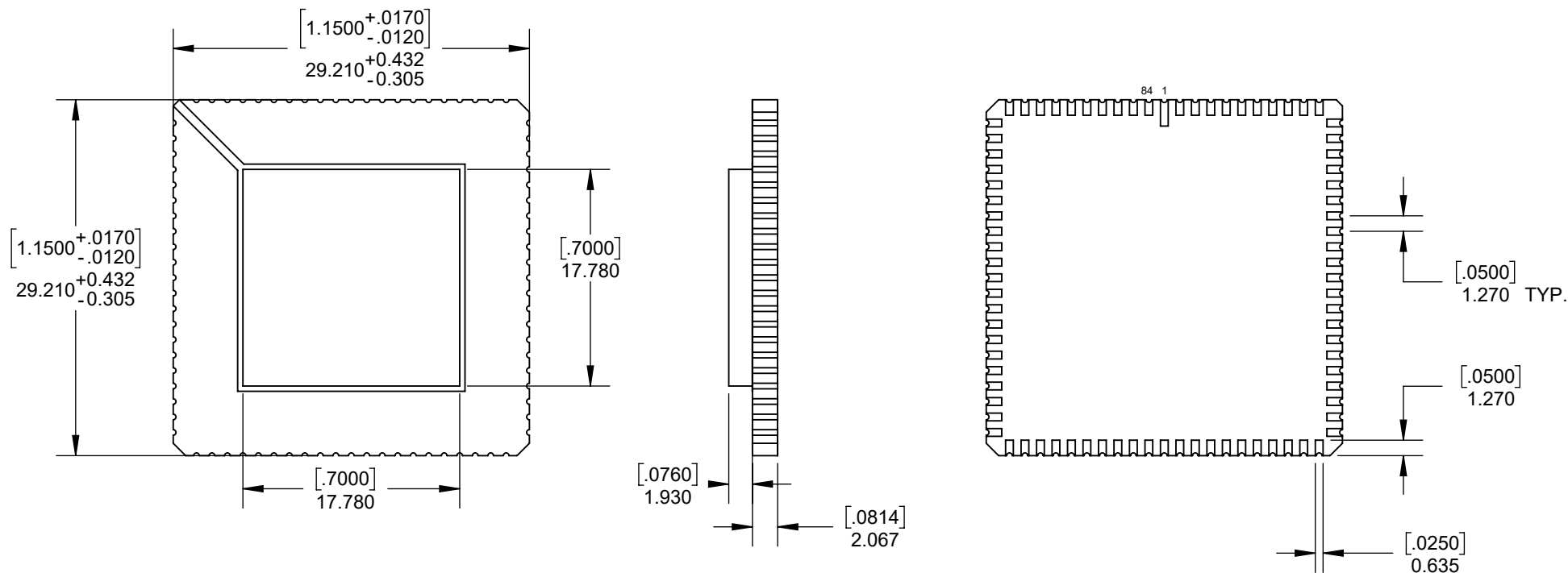
Total thickness: 1.6-2mm.

Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

SBT-LCC-1001 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: N/A Weight: 68.23	STATUS: Released ENG: S. Huang FILE: SBT-LCC-1001 Dwg	SHEET: 2 OF 5 DRAWN BY: M. Raske DATE: 7/12/2023	REV. A SCALE: 3:1

1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall exclude any effect of mark on top surface of package.




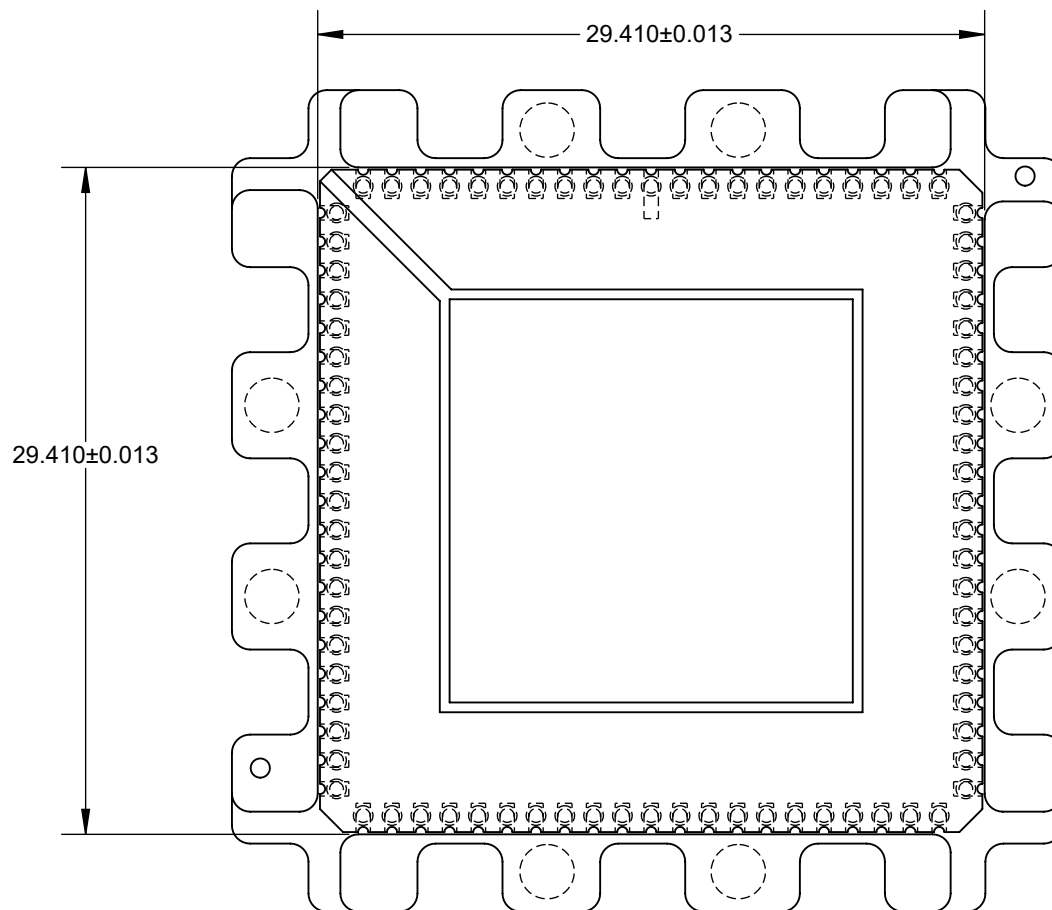
IRONWOOD PACKAGE CODE: LCC84B

Description: LCC Spec

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.

SBT-LCC-1001 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: N/A Weight: 68.23	STATUS: Released ENG: S. Huang FILE: SBT-LCC-1001 Dwg	SHEET: 3 OF 5 DRAWN BY: M. Raske DATE: 7/12/2023	REV. A SCALE: 2:1




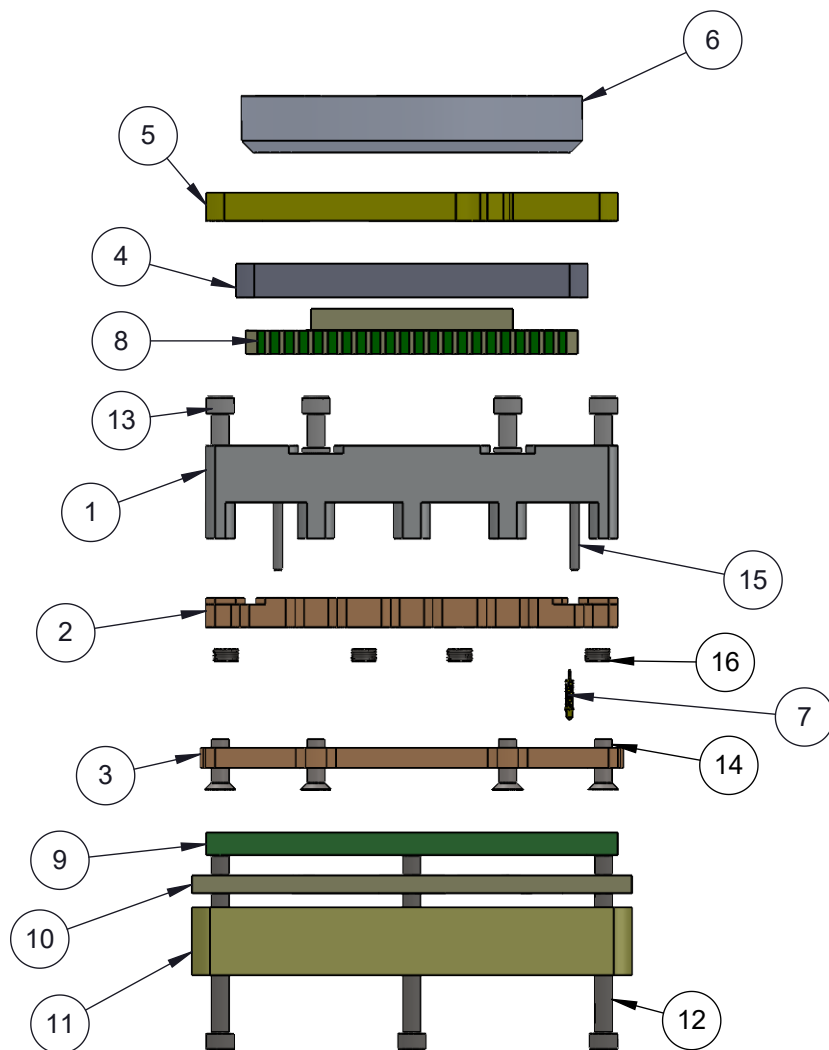
FLOATING GUIDE IC POCKET OPENING IS 29.41x29.41mm ± 0.0125 mm

Description: Floating guide detail

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.

SBT-LCC-1001 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: N/A Weight: 68.23	STATUS: Released	SHEET: 4 OF 5	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: SBT-LCC-1001 Dwg	DATE: 7/12/2023	

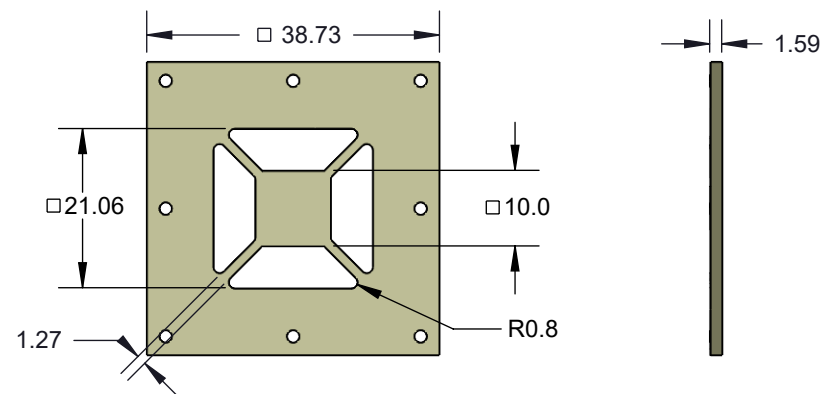


ITEM NO.	DESCRIPTION	Material
1	Socket Base 31mm IC w 0.375mm shift	7075-T6 Aluminum Alloy
2	Floating Guide 1.27mm pitch LCC84	Semitron MDS 100
3	Bottom Guide 1.27mm pitch LCC84	Semitron MDS 100
4	Compression Plate 31mm Ni plated	7075-T6 Aluminum Alloy
5	Socket Lid 31mm swivel Ni plt	7075-T6 Aluminum Alloy
6	Compression Screw, M30	7075-T6 Aluminum Alloy
7	Pogo Pin, 1mm Pitch SBT LGA pin	Material <not specified>
8	Customer's LCC84 1.27mm 29.21mm IC	FR4 Standard
9	PCB LCC84 1.27mm 29.21mmmm	FR4 High temp
10	Insulation Plate	High Temp FR4
11	SBT NI PLT BACKING PLT 31MM	7075-T6 Aluminum Alloy
12	#0-80 X .625 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
13	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
14	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled
15	Dowel pin, 1/32" x 5/16", SS	Chrome Stainless Steel
16	Floating Guide Spring	Alloy Steel (SS)

INSULATION PLATE DETAIL
SCALE 1:1




P-P152A
Scale 8:1



Description: Skt Assem, Insulation Plate

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.

 SBT-LCC-1001 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: N/A Weight: 68.23	STATUS: Released	SHEET: 5 OF 5	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 3:2
		FILE: SBT-LCC-1001 Dwg	DATE: 7/12/2023	