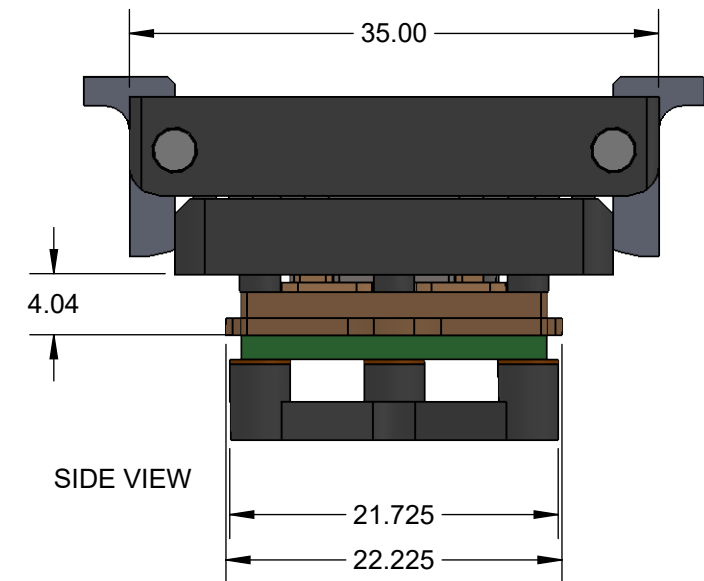
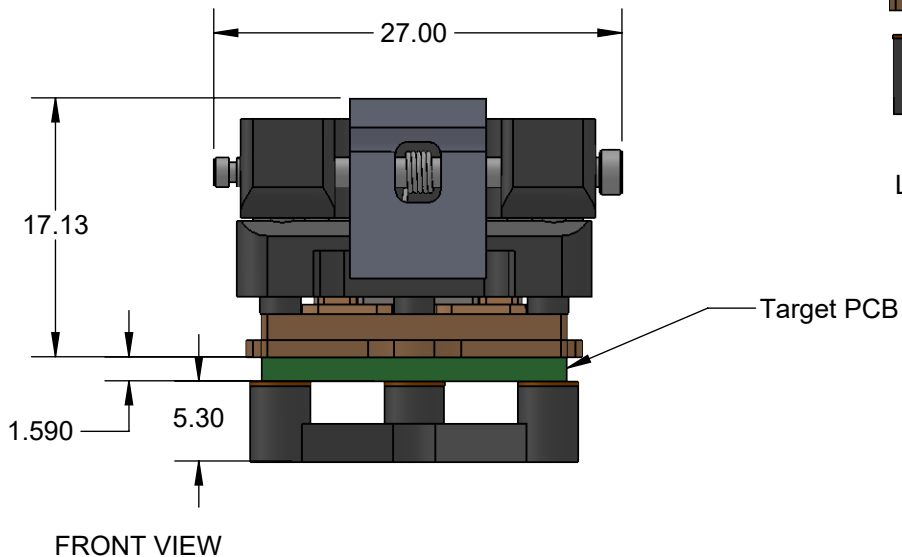
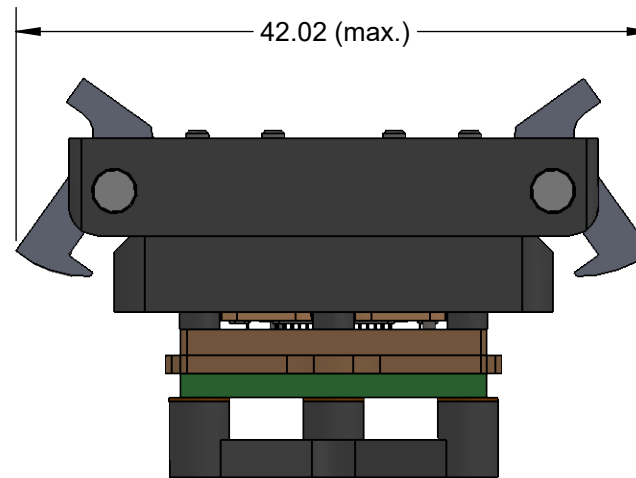
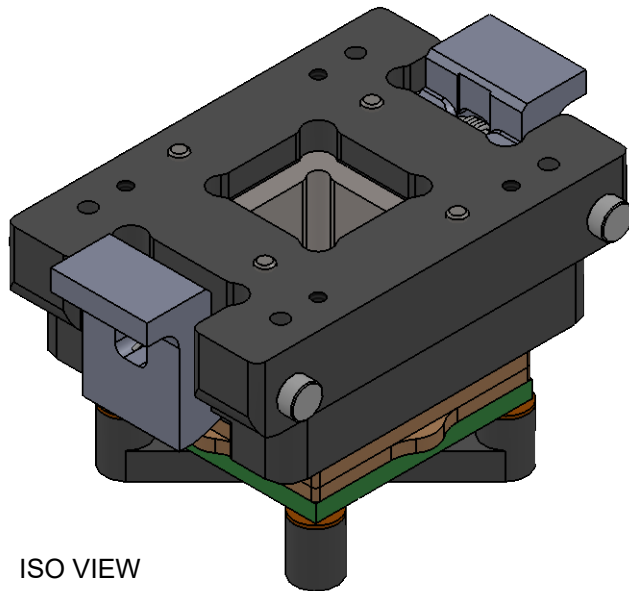


# OPEN TOP DUAL LATCH CBT-QFE DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

## 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



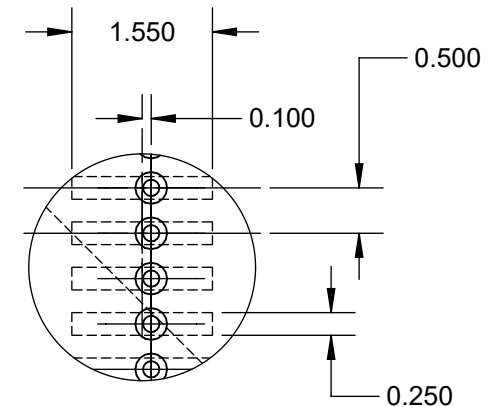
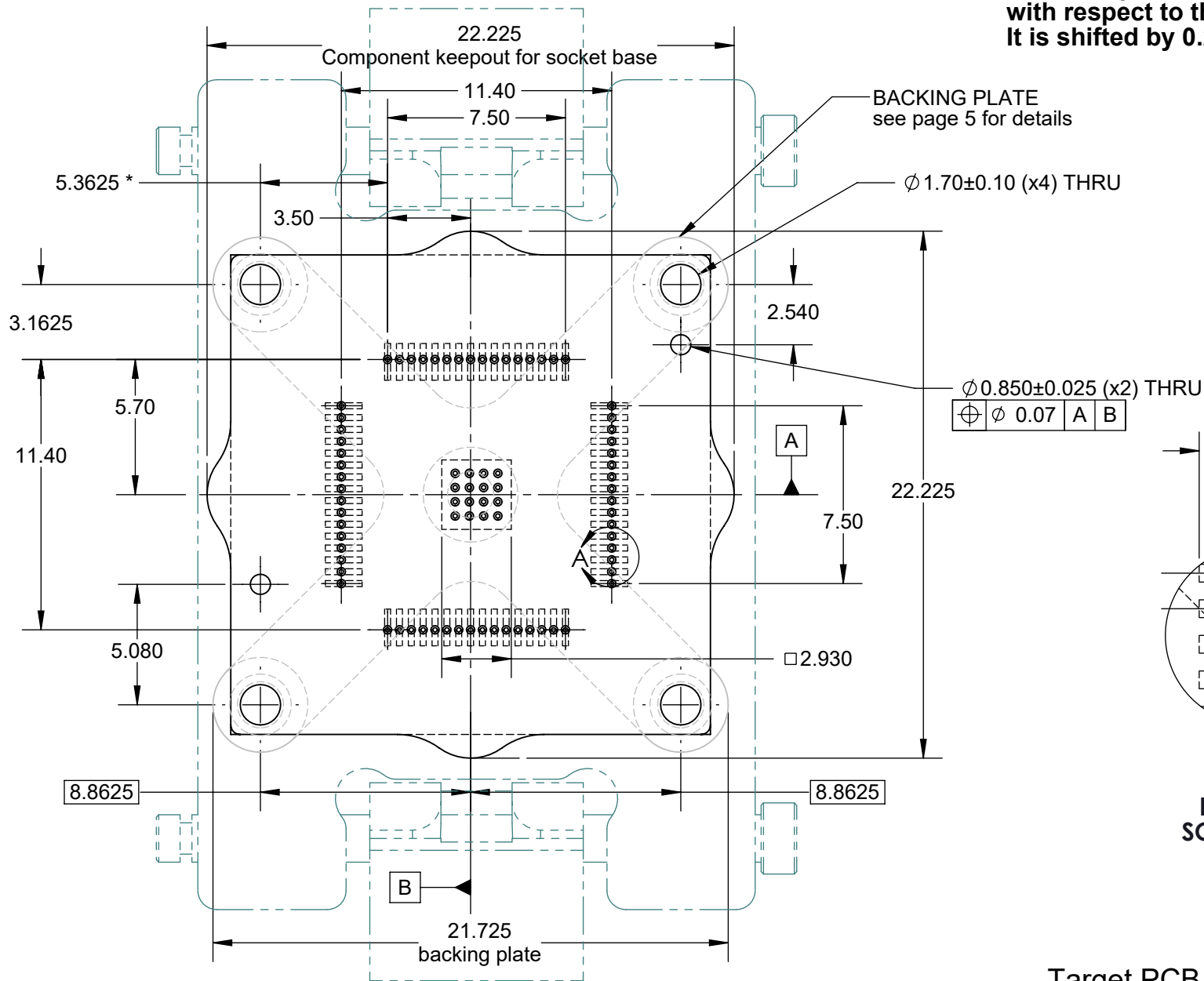
**Description:** Open Top CBT socket for 0.5mm pitch 10mm sq 12mm tip-tip 64 pin QFP package

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>C17772 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 21.20	STATUS: Released ENG: S. Huang FILE: C17772 Dwg	SHEET: 1 OF 5 DRAWN BY: S. Huang DATE: 07/25/2018	REV. A SCALE: 2:1

**\*Note: IC pattern is not symmetrical with respect to the mounting holes. It is shifted by 0.25mm to the right. of center.**




**DETAIL A  
SCALE 12 : 1**

**Target PCB Design Recommendations:**  
Total thickness: 1.59mm min.  
Plating: Gold or Solder finish

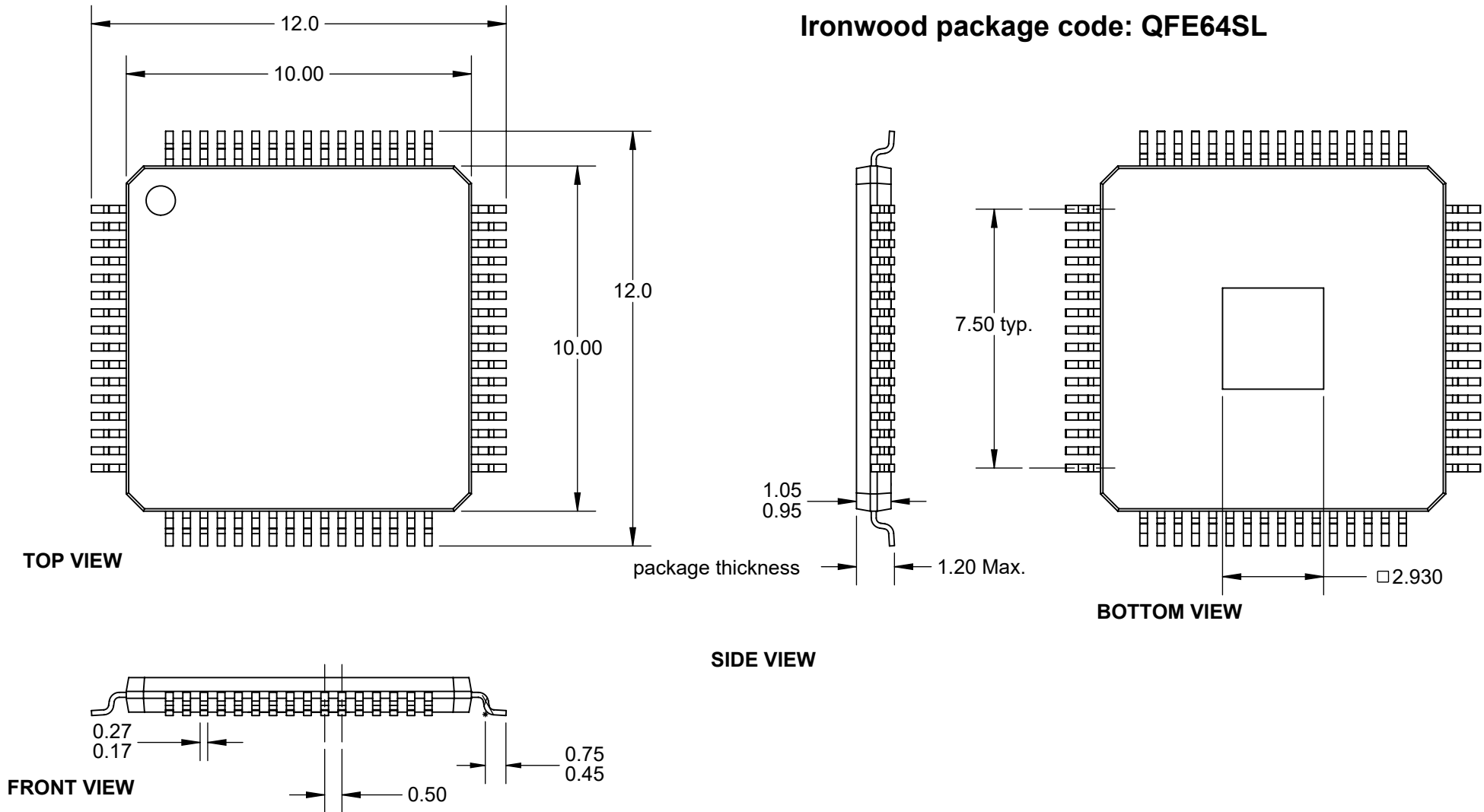
### Description: Recommended PCB Layout

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

Tolerances: Hole diameters  $\pm 0.0254\text{mm}$  [ $\pm 0.001"$ ], 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.

 <b>C17772 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 21.20	STATUS: Released ENG: S. Huang FILE: C17772 Dwg	SHEET: 2 OF 5 DRAWN BY: S. Huang DATE: 07/25/2018	REV. A SCALE: 4:1

## Ironwood package code: QFE64SL




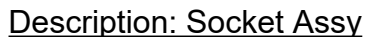
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall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

### Description: Compatible Device

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.

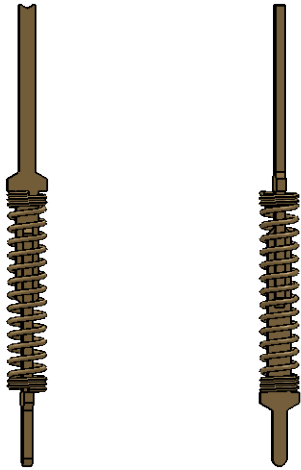
 <b>C17772 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 21.20	STATUS: Released	SHEET: 3 OF 5	REV. A
		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 6:1
		FILE: C17772 Dwg	DATE: 07/25/2018	



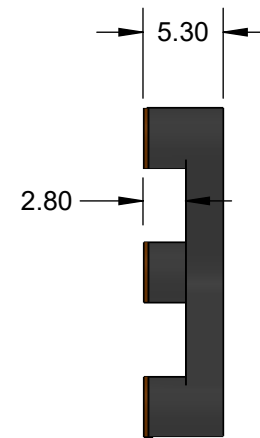
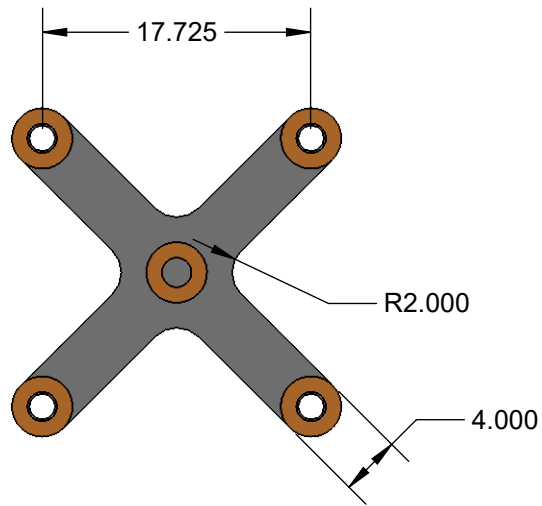
Tolerances: Hole diameters  $\pm 0.03\text{mm}$  [ $\pm 0.001"$ ], Pitches (from true position)  $\pm 0.025\text{mm}$  [ $\pm 0.001"$ ], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.13\text{mm}$  [ $\pm 0.005"$ ] unless stated otherwise. Materials and specifications are subject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

ITEM NO.	DESCRIPTION	Material
1	Clamshell Latch Snap type 9mm wide	7075-T6 Alumium Alloy
2	#0-80 X 7/16" LG, SOC HD CAP SCREW	Stainless Steel (304)
3	Floating Guide Spring	Alloy Steel (SS)
4	Lid, double latch socket	7075-T6 Alumium Allo
5	Target PCB QFE64 0.5mm pitch 10mm sq body 12mm tip to tip with ePad	FR4 High temp
6	Hinge Pin, 2mm OD, 24mm Lg, SS	Stainless Steel (303)
7	15x15mm Clamshell Backing Plate	7075-T6 Aluminum Alloy
8	Insulating washer, 4mm OD.	Kapton Polyimide/Cirlex
9	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled
10	302SS Comp. Spring .375" Length, .125" OD, .016" Wire Dia.	Material <not specified>
11	#0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
12	CFE LQFP64 0.5mm pitch 10mm sq body 12mm T-T with ePad	Material <not specified>
13	Dowel Pin, M1.5 X 5mm LG, Hardened Steel	AISI 347 Annealed Stainless Steel (SS)
14	Coil Spring, 180 0.109" OD, SS	Stainless Steel (302)
15	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
16	Floating spring pin guide QFP64 with ePad	Semitron MDS 100
17	Middle guide QFE64 with ePad	Semitron MDS 100
18	Bottom pin guide QFE64 with ePad	Semitron MDS 100
19	CBT socket base double latch	7075-T6 Alumium Alloy
20	Compression plate QFE64 0.5mm pitch	PEEK
21	Stamped Pin, 0.4mm SBT-BGA	N/A

 <b>C17772 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 <a href="http://www.ironwoodelectronics.com">www.ironwoodelectronics.com</a>	Material: N/A Finish: N/A Weight: 21.20	STATUS: Released	SHEET: 4 OF 5	REV. A
		ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 2:1
		FILE: C17772 Dwg	DATE: 07/25/2018	



**PIN DETAIL**  
**SCALE 16:1**




**BACKING PLATE DETAIL**

## Description: PIN, BACKING PLT 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.

<b>C17772 Drawing</b>		STATUS: Released	SHEET: 5 OF 5	REV. A
 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A	ENG: S. Huang	DRAWN BY: S. Huang	SCALE: 2:1
	Finish: N/A Weight: 21.20	FILE: C17772 Dwg	DATE: 07/25/2018	