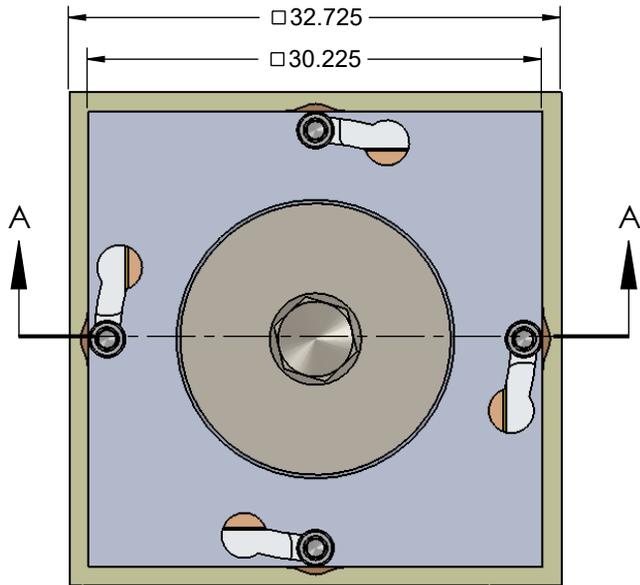


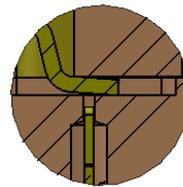
SBT-QFE144 DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

Features

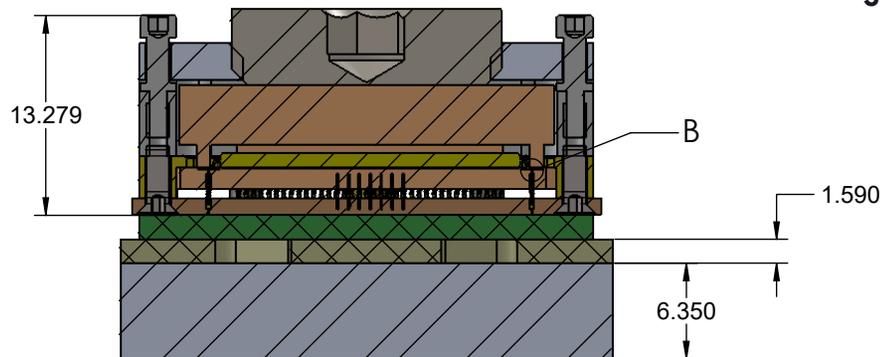
- Wide temperature range (-55C to +180C).
- High current capability (up to 4A).
- Excellent signal integrity at high frequencies.
- Low and stable contact resistance for reliable production yield.
- Highly compliant to accommodate wide co-planarity variations.
- Automated probe manufacturing enables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



TOP VIEW

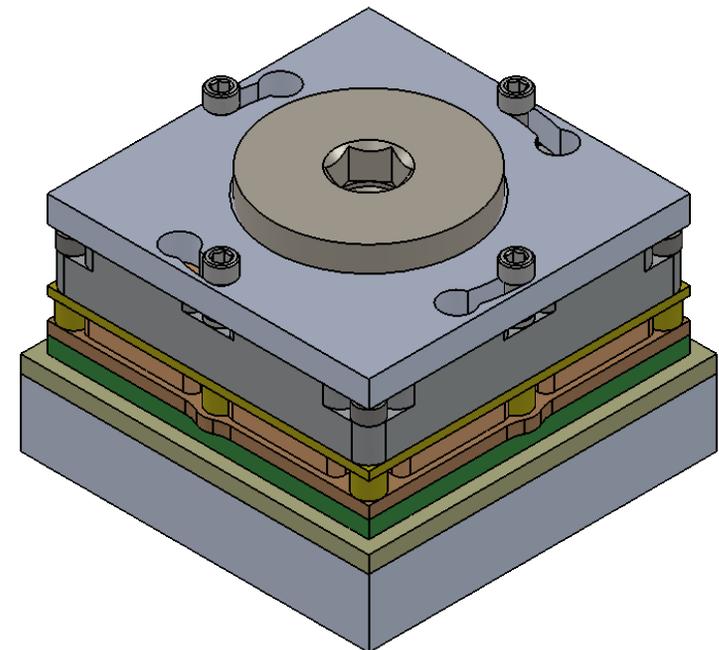


DETAIL B
SCALE 16 : 1



SIDE VIEW

SECTION A-A



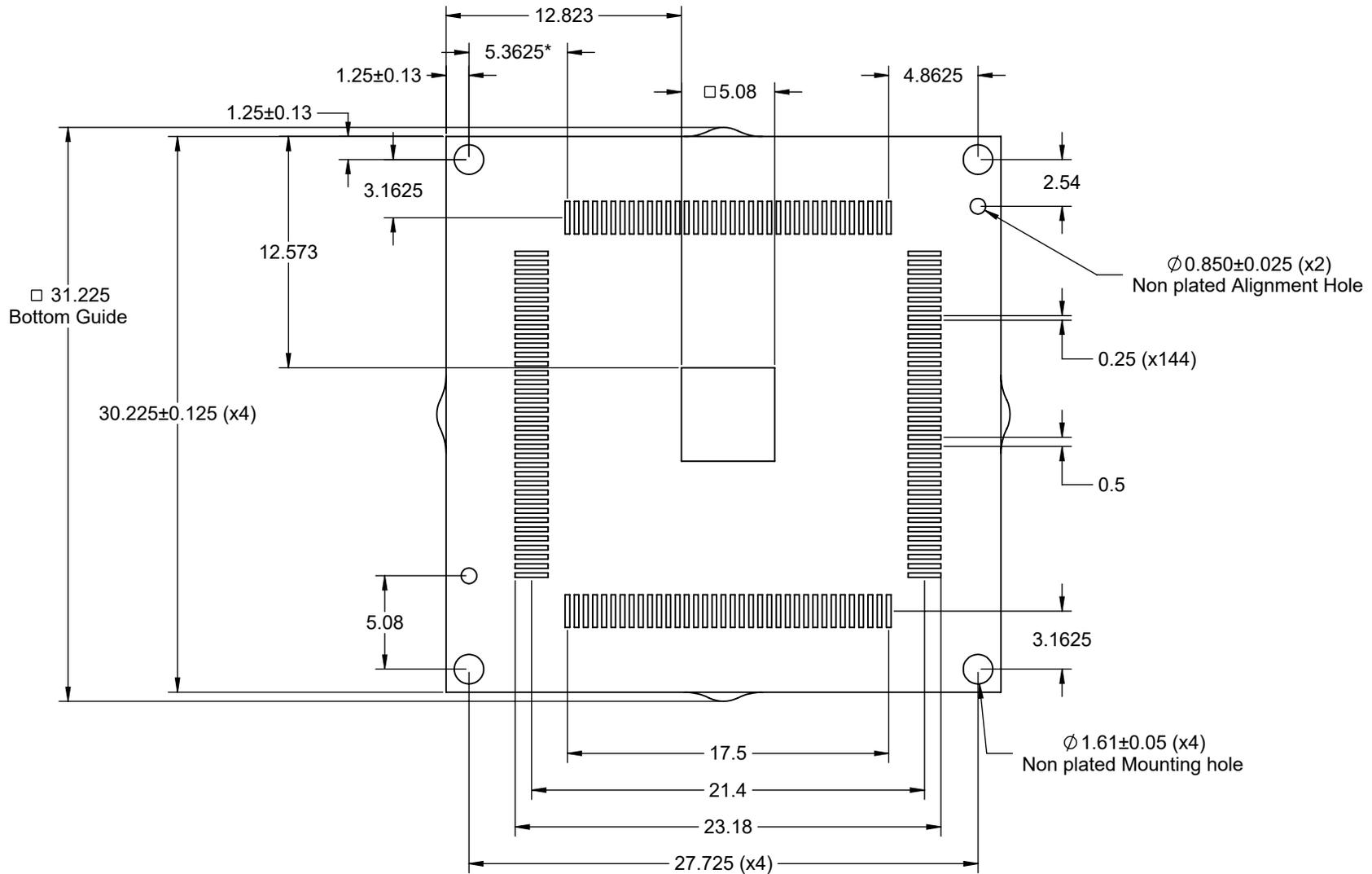
Description: SBT version of SG-QFE-7006

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-QFE-3005 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 42.24	STATUS: Released ENG: J. Vavra FILE: SBT-QFE-3005 Dwg	SHEET: 1 OF 5 DRAWN BY: M. Raske DATE: 11/19/2014	REV. C SCALE: 2:1

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



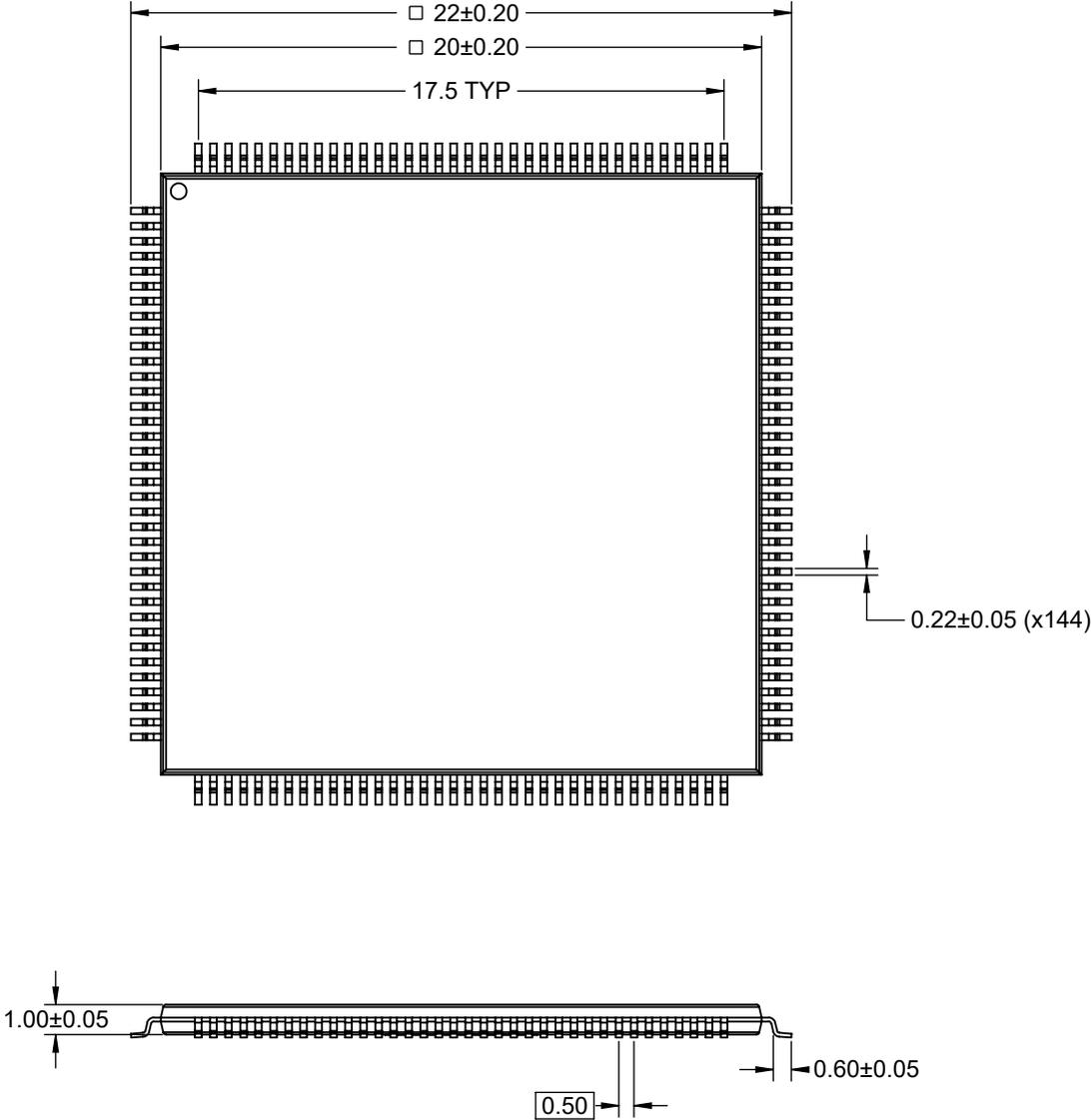
Target PCB Recommendations
Total thickness: 1.5mm min.
Plating: Gold or Solder finish

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.

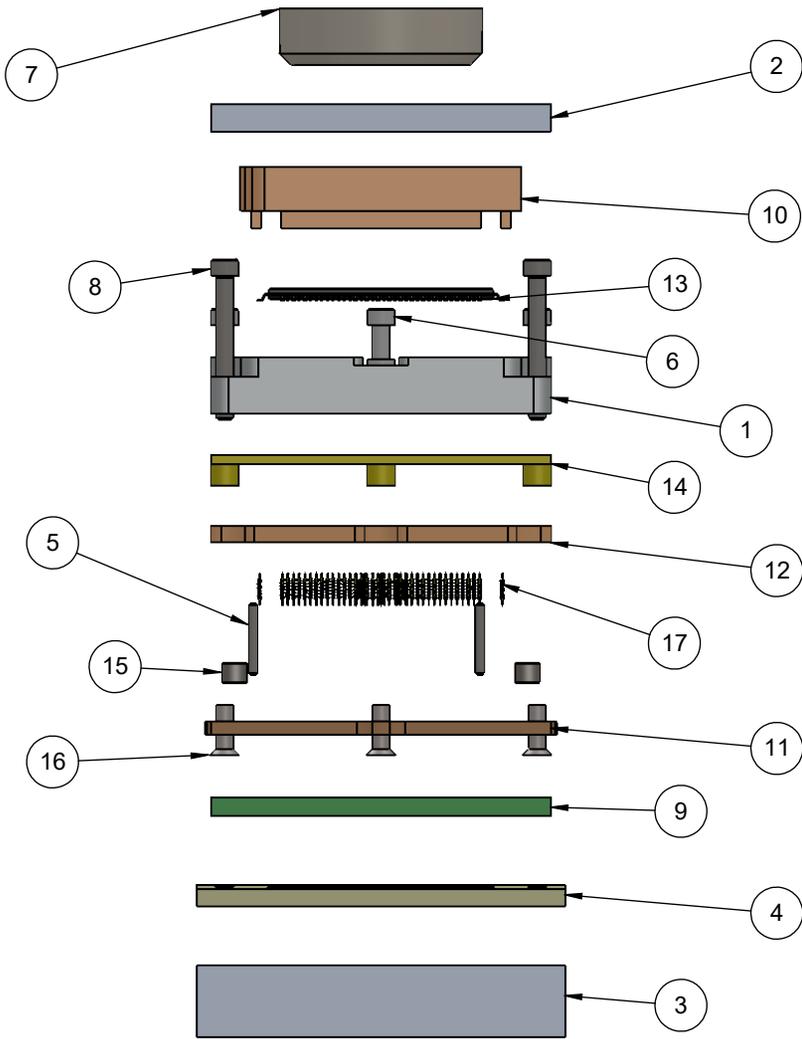
 SBT-QFE-3005 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 42.24	STATUS: Released	SHEET: 2 OF 5	REV. C
		ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: SBT-QFE-3005 Dwg	DATE: 11/19/2014	



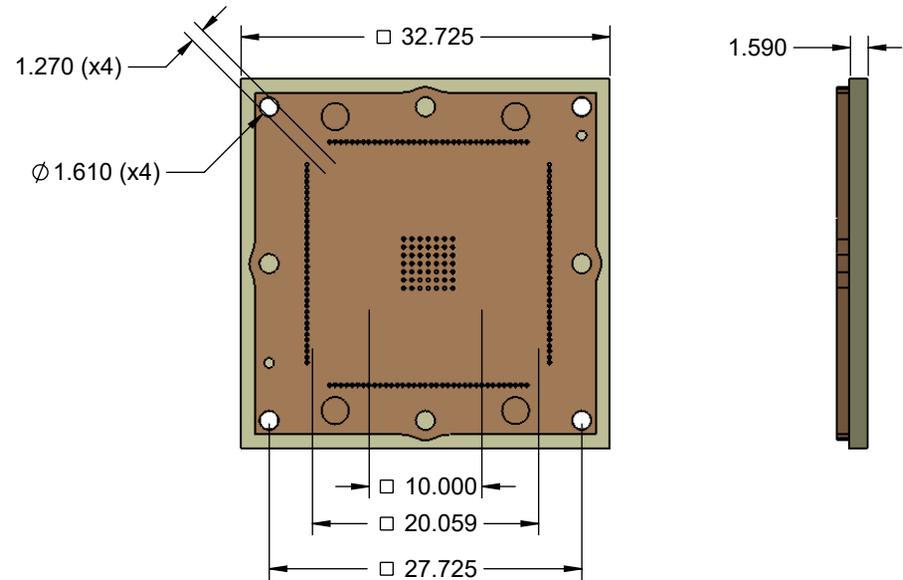
Description: Compatible IC

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.

 <p>SBT-QFE-3005 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 42.24</p>	STATUS: Released	SHEET: 3 OF 5	REV. C
		ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: SBT-QFE-3005 Dwg	DATE: 11/19/2014	



ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Alumium Alloy
2	Socket Lid, 25x25mm IC size	7075-T6 Aluminum Alloy
3	Backing Plate 25x25mm	7075-T6 Aluminum Alloy
4	Insualtion Plate 25x25mm IC	FR4
5	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
6	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
7	Compression Screw, M18	7075-T6 Aluminum Alloy
8	#0-80 x 0.5, SH Cap Screw	Alloy Steel
9	Test Board QFE144 0.5mm pitch	FR4 High temp
10	Compression Plate	Ultem 1000
11	Bottom Guide, QFE144 0.5mm pitch	Semitron MDS 100
12	Floating Guide QFE144 0.5mm pitch	Semitron MDS 100
13	Tchip, QFP144 from Cadence for C13872	
14	Socket Base Frame QFE144 20x20mm	Torlon 4203
15	Floating Guide Spring	Alloy Steel (SS)
16	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled
17	Stamped Pin, 0.4mm SBT-LGA/QFN	N/A

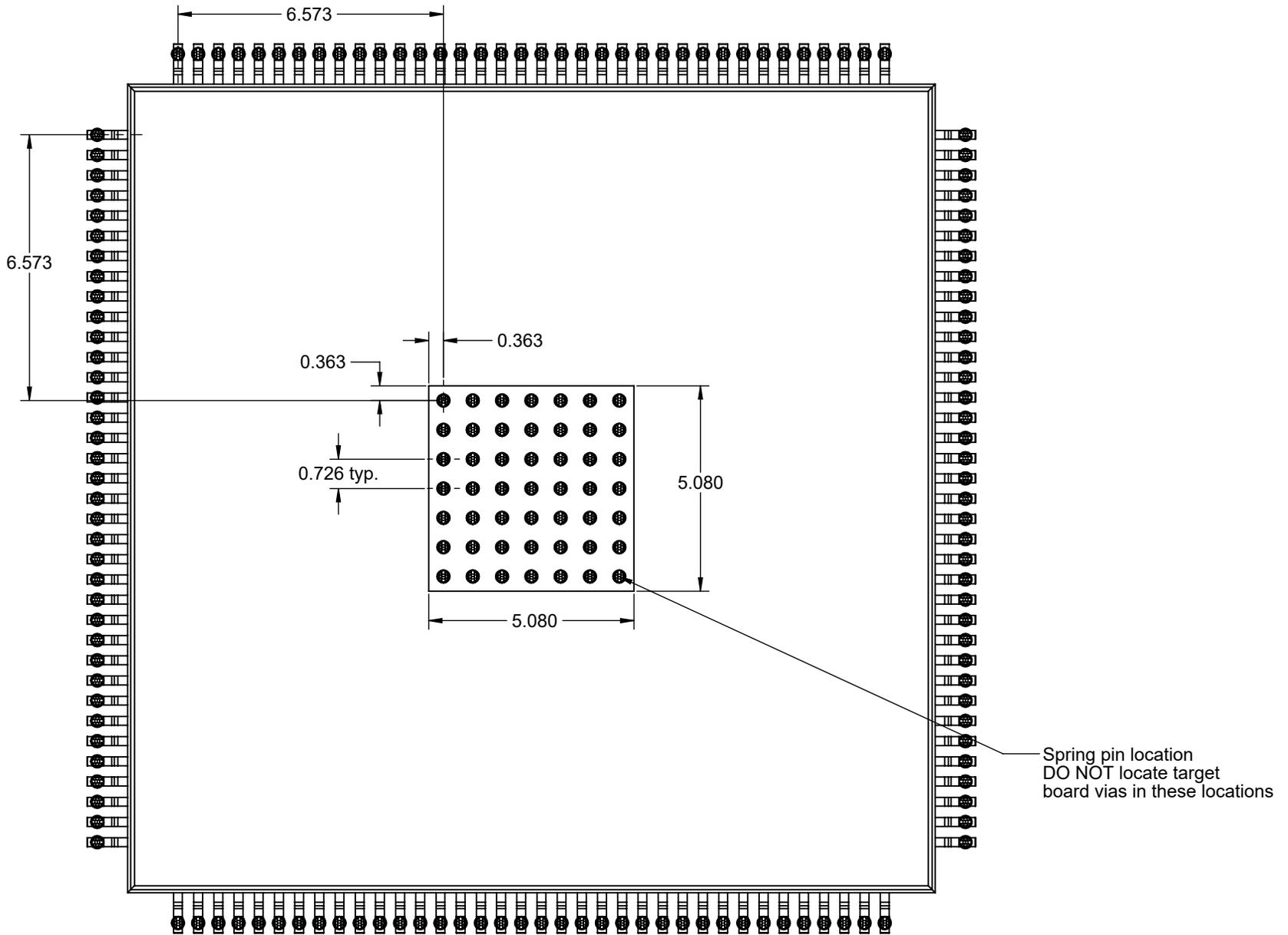


Description: Skt, Insulation Plate, Pin Det

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-QFE-3005 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 42.24	STATUS: Released ENG: J. Vavra FILE: SBT-QFE-3005 Dwg	SHEET: 4 OF 5 DRAWN BY: M. Raske DATE: 11/19/2014	REV. C SCALE: 1.5:1



Description: Thermal Pad

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.

Rev	Date	Initials	Description
A	11/19/14	MR	Original
B	07/17/15	DH	Updated PCB layout page
C	8/21/15	MR	Updated to newer pogo pin: P-P184A

 SBT-QFE-3005 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 42.24	STATUS: Released	SHEET: 5 OF 5	REV. C
		ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 7:1
		FILE: SBT-QFE-3005 Dwg	DATE: 11/19/2014	