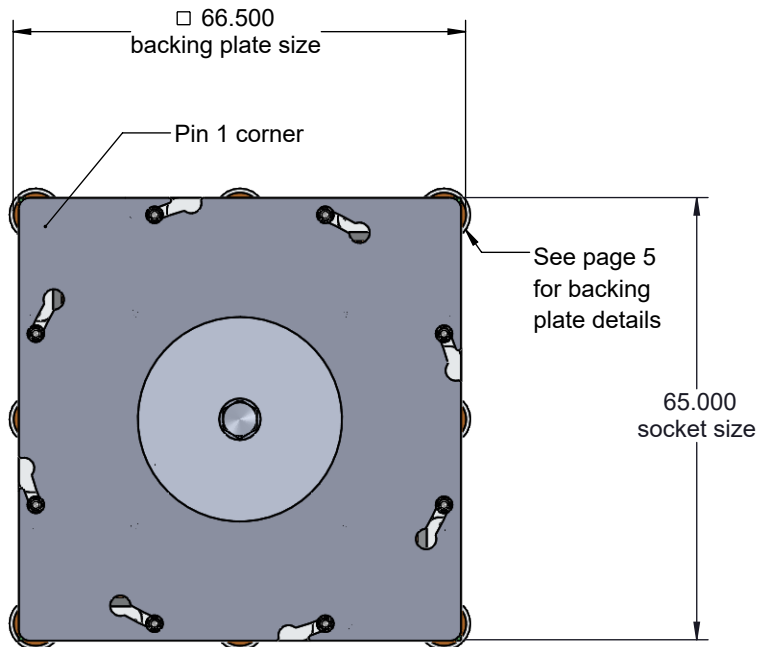


SBT-QFE DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

Features

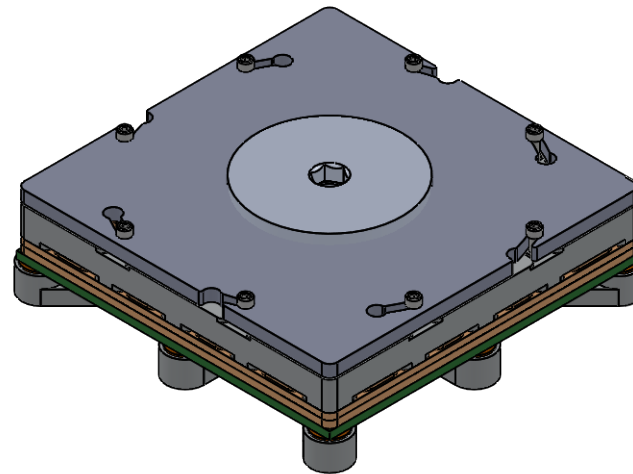
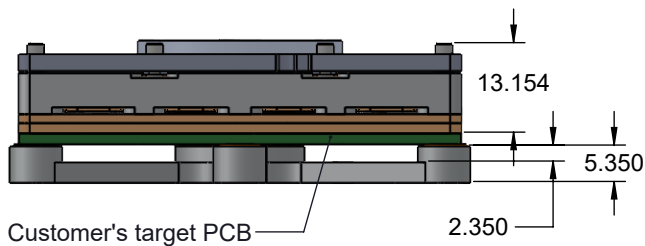
- Wide temperature range (-55C to +180C).
- High current capability (up to 4A).
- Excellent signal integrity at high frequencies.
- Low and stable contact resistance for reliable production yield.
- Highly compliant to accommodate wide co-planarity variations.
- Automated probe manufacturing enables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



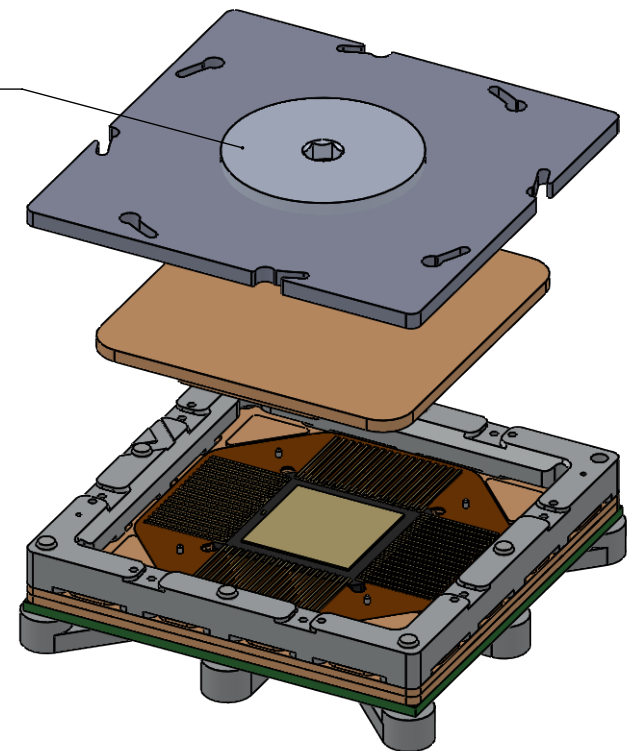
Required torque is 4.5 lbf-in (50.8 N-cm)

Recommended torque driver:

TL-TORQUEDRIVER-01



LID CLOSE



LID OPEN

Description: SBT QFP68 Socket 47.5mm tip to tip, 24.64mm body to 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.

SBT-QFE-3015 Drawing



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

Material: N/A
Finish: N/A
Weight: 120.22

STATUS: Released

ENG: S. Huang

FILE: SBT-QFE-3015 Dwg

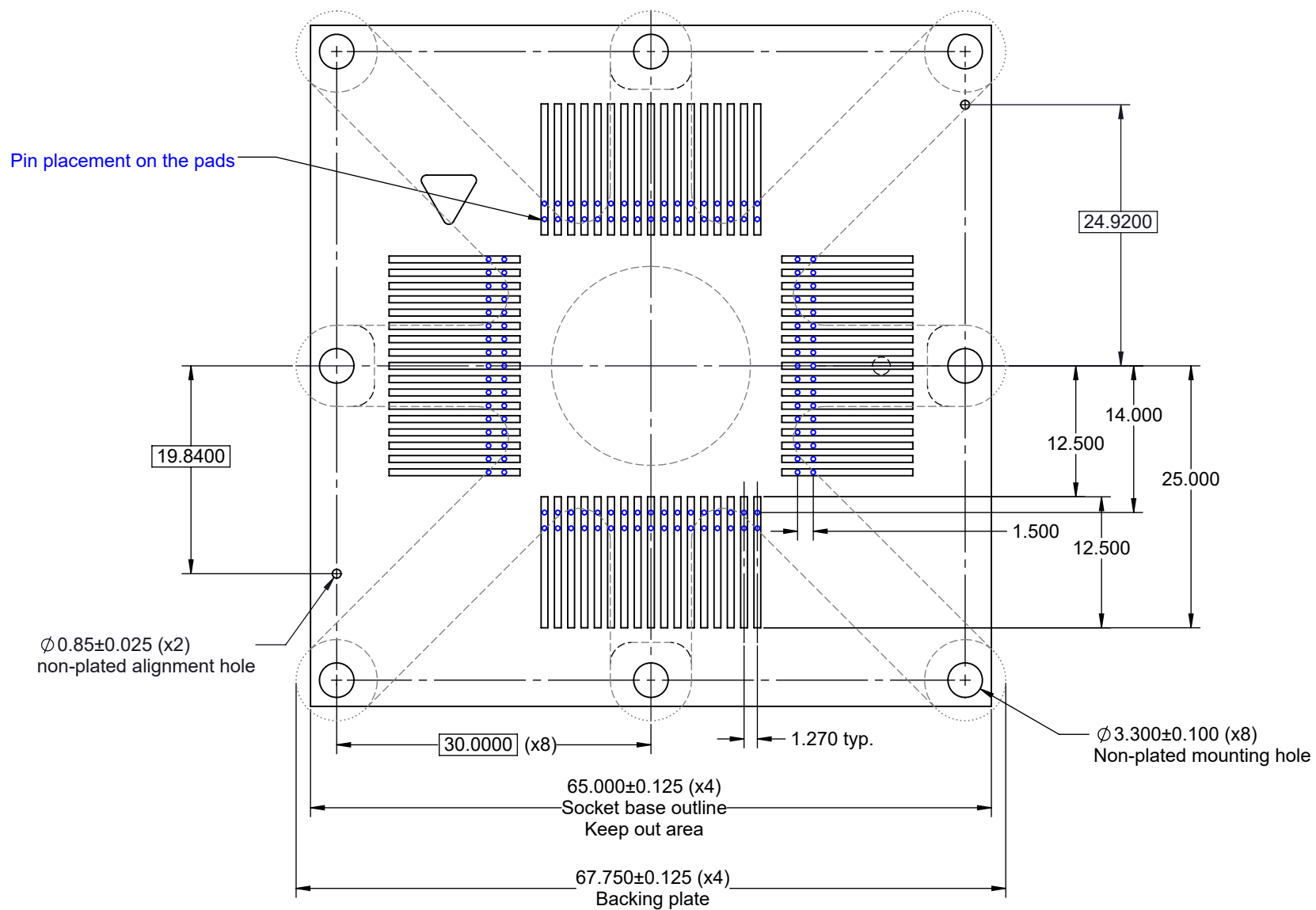
SHEET: 1 OF 5

DRAWN BY: M. Raske

DATE: 12/5/2017

REV. A

SCALE: 0.9:1




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

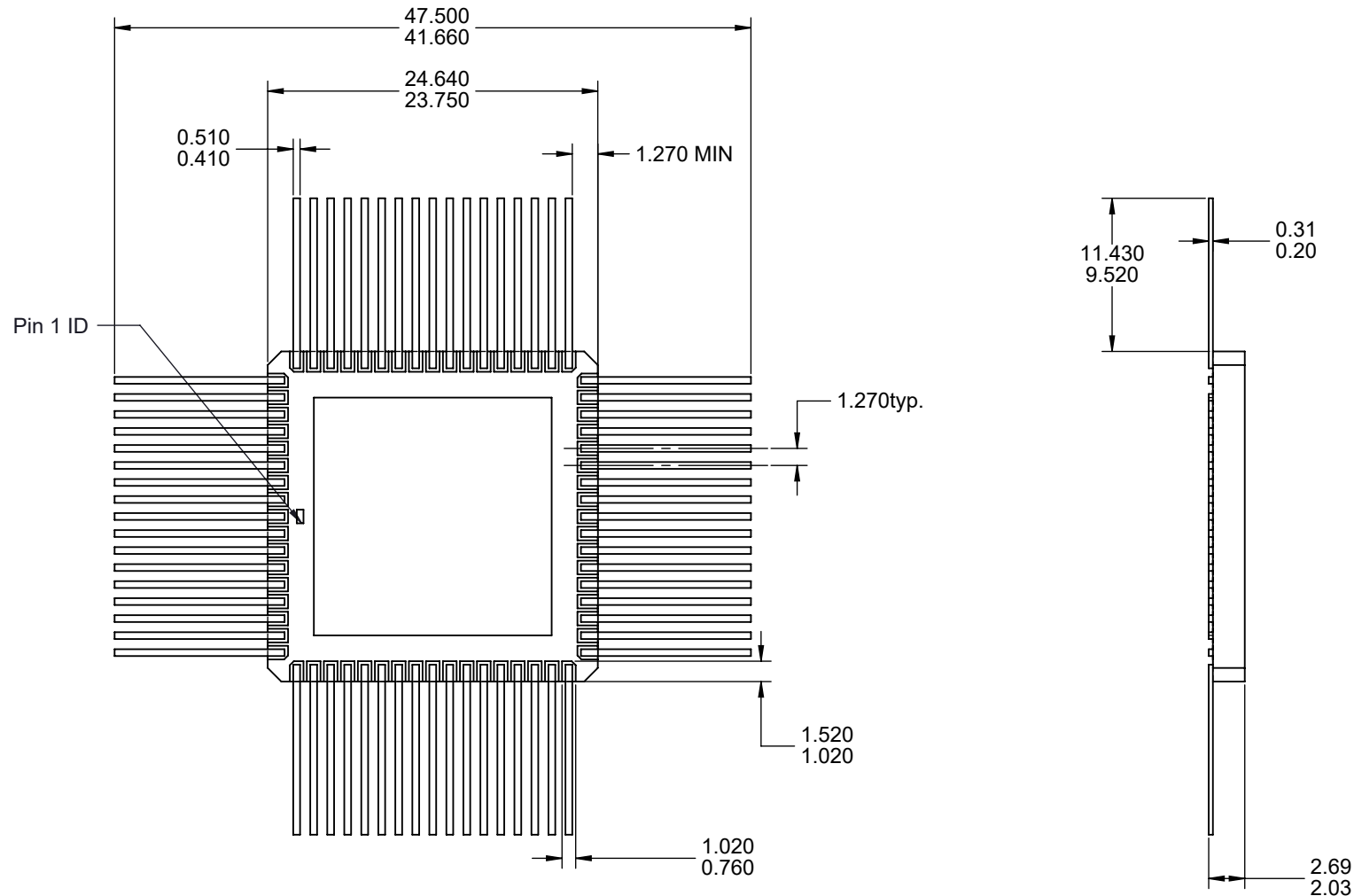
Description: Recommended PCB layout

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

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

SBT-QFE-3015 Drawing  ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 120.22	STATUS: Released	SHEET: 2 OF 5	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 1.75:1
		FILE: SBT-QFE-3015 Dwg	DATE: 12/5/2017	


Ironwood Package Code QFE68

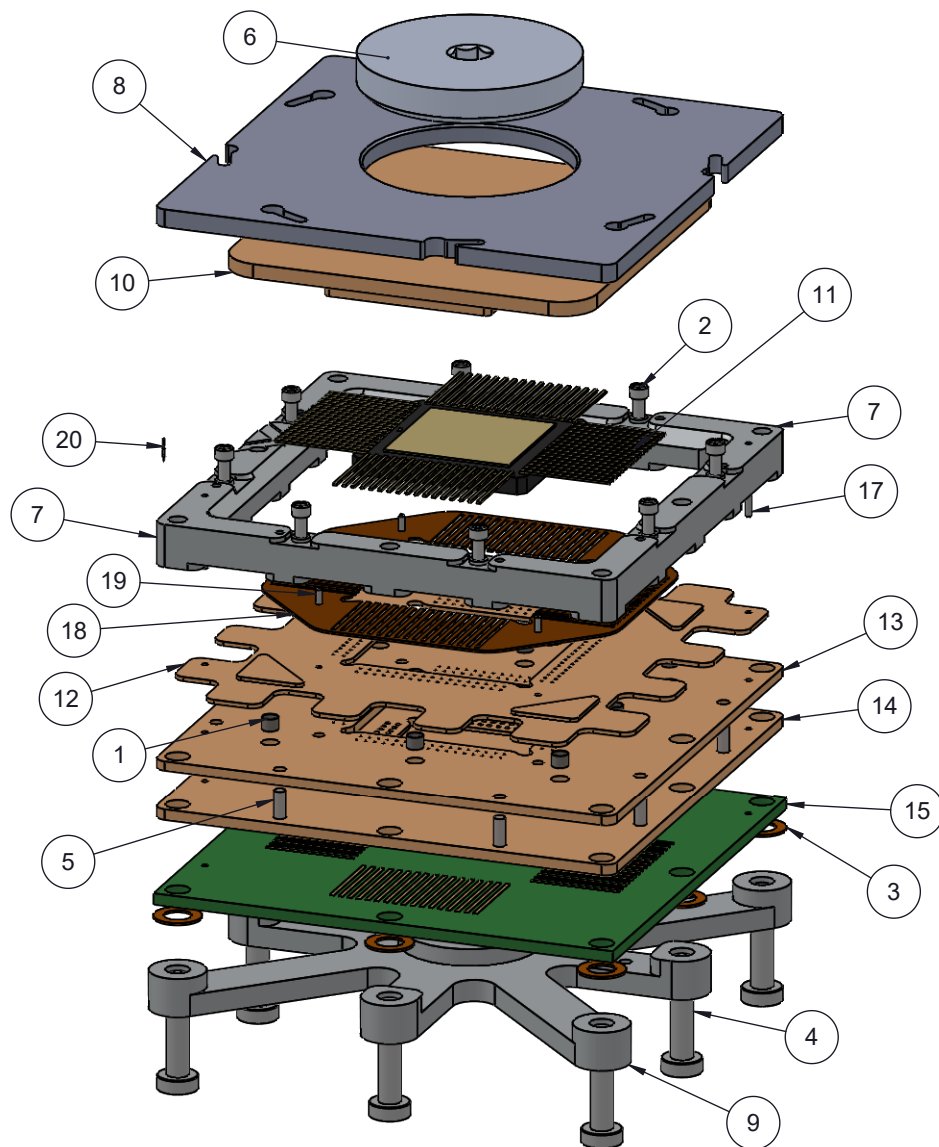


Description: Compatible IC

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.

<div>  SBT-QFE-3015 Drawing ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com </div>	Material: N/A Finish: N/A Weight: 120.22	STATUS: Released ENG: S. Huang FILE: SBT-QFE-3015 Dwg	SHEET: 3 OF 5 DRAWN BY: M. Raske DATE: 12/5/2017	REV. A SCALE: 2:1



ITEM NO.	DESCRIPTION	Material
1	Floating Guide Spring	Alloy Steel (SS)
2	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
3	Insulating washer, 6.5mm OD.	Kapton Polyimide/Cirlex
4	M3-0.5 x 13mm long low socket head cap screw	
5	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
6	Compression Screw, M30	7075-T6 Aluminum Alloy
7	SBT Socket Base 55mm IC	7075-T6 Aluminum Alloy
8	Socket Lid for 55mm IC	7075-T6 Aluminum Alloy
9	Backing Plate 55mm IC	7075-T6 Aluminum Alloy
10	QFP68 Compression Plate	Torlon 5530
11	47.5mm tip to tip, 24.64mm body size 1.27mm pitch QFP68	FR4 High temp
12	Floating Guide QFP68 1.27mm pitch	Semitron MDS 100
13	Middle Guide QFP68 1.27mm pitch	Semitron MDS 100
14	Bottom Guide QFN68 1.27mm pitch	Semitron MDS 100
15	Customer's target PCB	FR4 Standard
16	Insulating washer, 18mm OD.	Kapton Polyimide/Cirlex
17	Dowel pin, 1/32" x 5/16", SS	Chrome Stainless Steel
18	Lead guide for QFN68 1.27mm pitch	Kapton Polyimide/Cirlex
19	Alignment Pin 1/32" dia. x 1/8" lng	Chrome Stainless Steel
20	SBT Pin, SBT-BGA 0.5mm-0.8mm	

**Pog Pin View
Scale 14:1**



Description: Socket Exploded View

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.

SBT-QFE-3015 Drawing



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

Material: N/A
Finish: N/A
Weight: 120.22

STATUS: Released

ENG: S. Huang

FILE: SBT-QFE-3015 Dwg

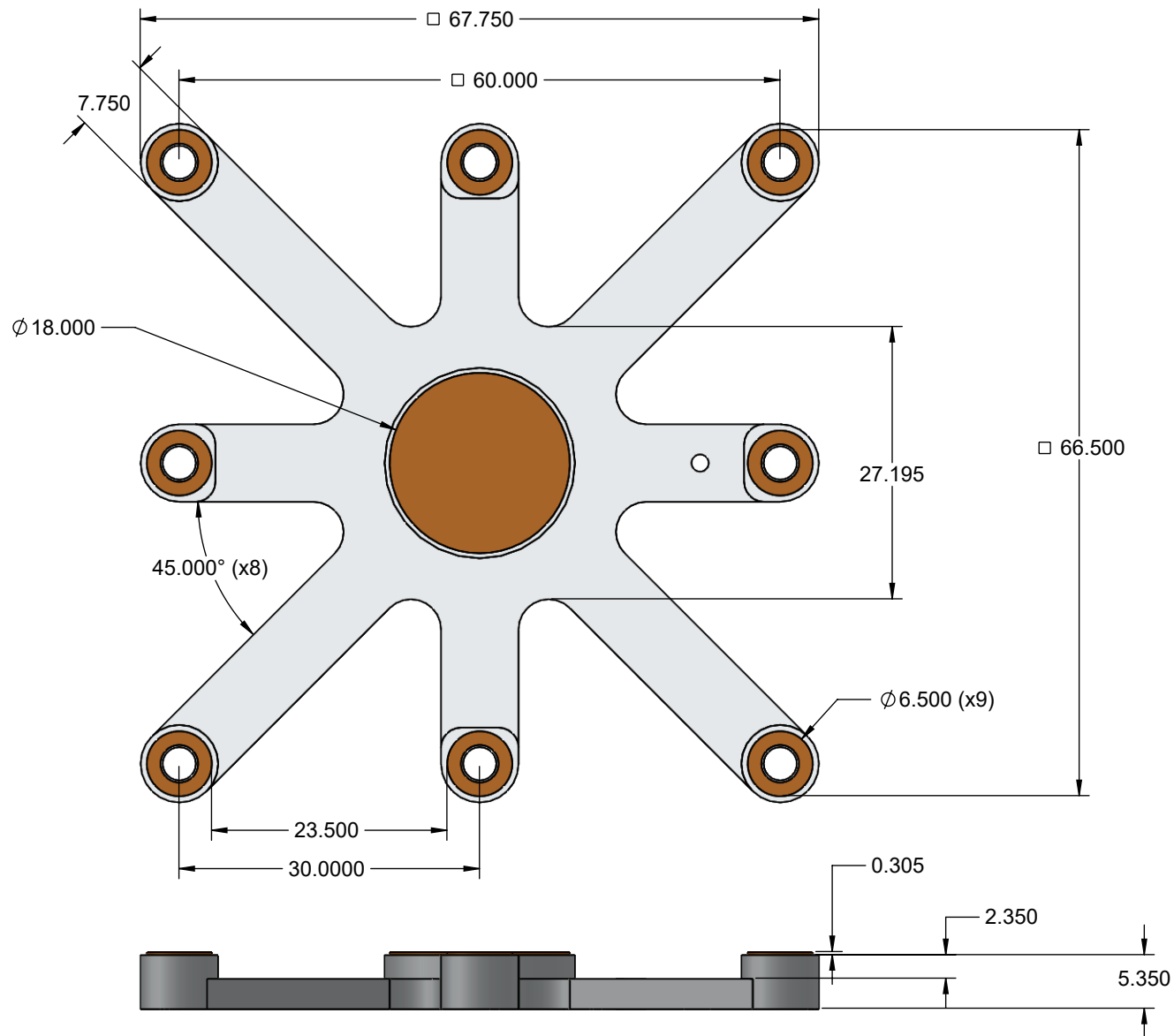
SHEET: 4 OF 5

DRAWN BY: M. Raske

DATE: 12/5/2017

REV. A


SCALE: 1:1



Description: Skt, Insulation Plate, Pin Det

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

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

SBT-QFE-3015 Drawing  ©2017 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 120.22	STATUS: Released ENG: S. Huang FILE: SBT-QFE-3015 Dwg	SHEET: 5 OF 5 DRAWN BY: M. Raske DATE: 12/5/2017	REV. A SCALE: 1.5:1
--	--	---	--	------------------------