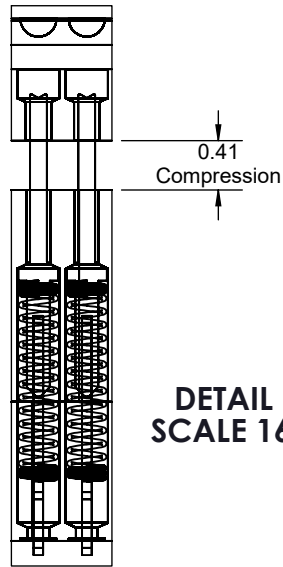
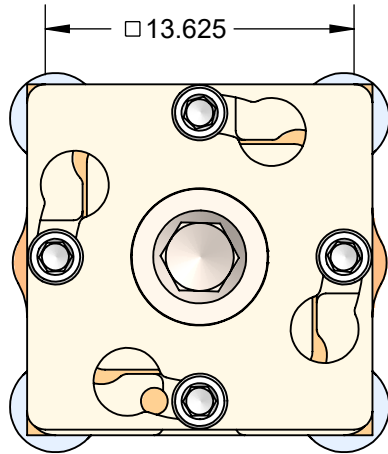


SBT-BGA MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

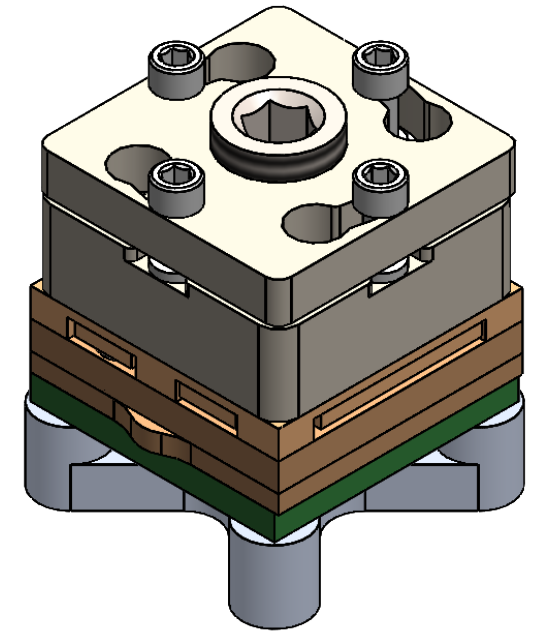
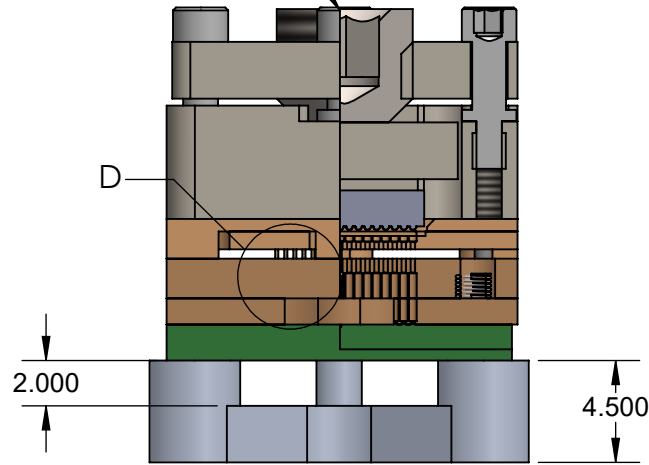
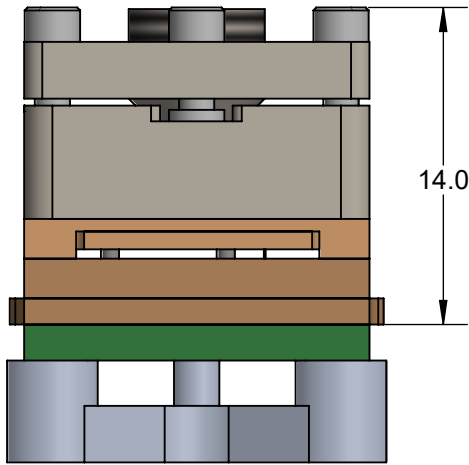


**DETAIL D
SCALE 16 : 1**

FEATURES:

- Wide temperature range (-55C to +180C)
- High current capability (up to 2.9A)
- 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.

Recommended Torque 1 in lbs

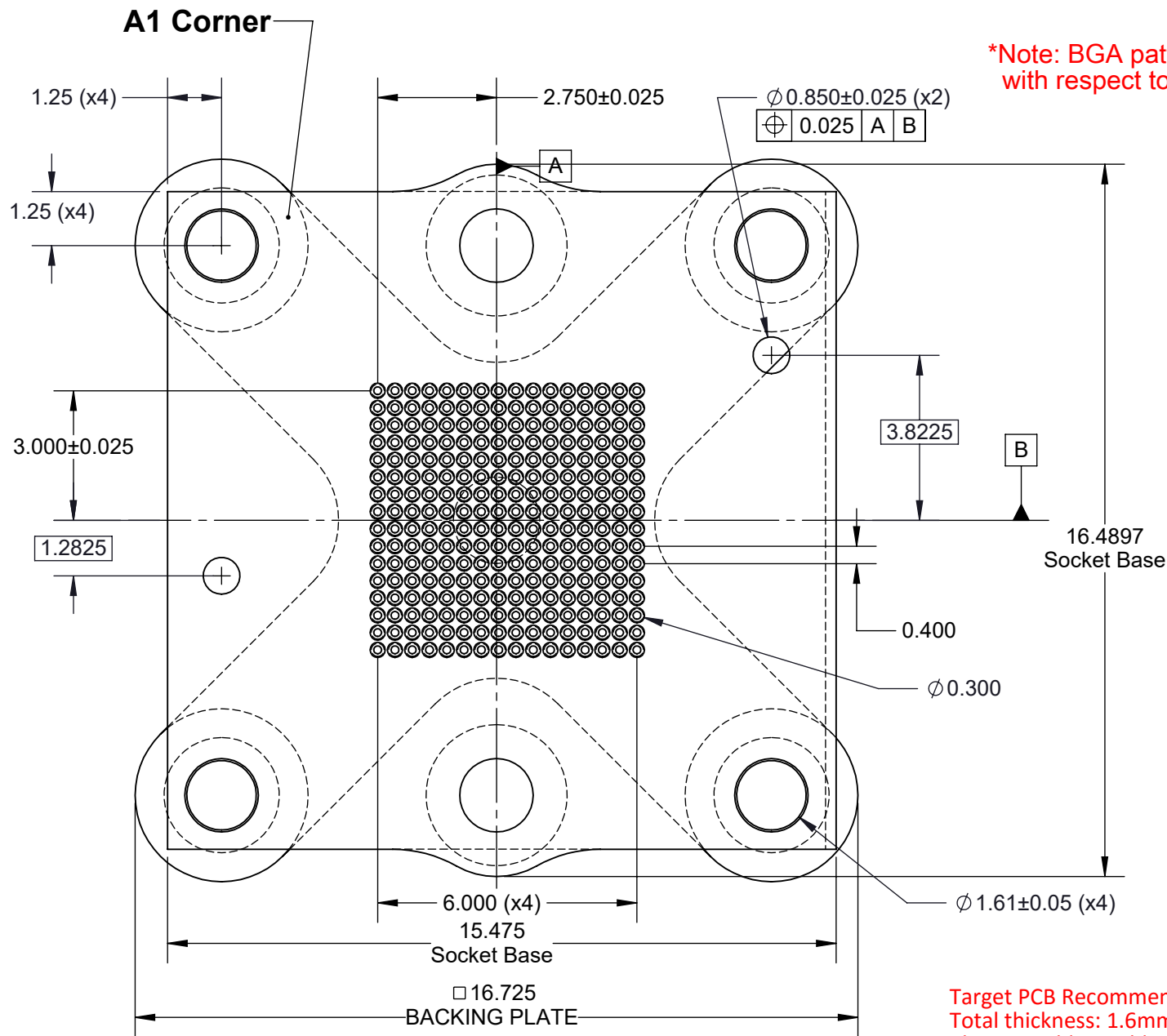


Description: SBT-BGA Socket, 7x7mm, 0.4mm pitch, 16x16 array

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-BGA-8004 Drawing		STATUS: Released	SHEET: 1 OF 5	REV. C
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 8.54	ENG: V. Panavala FILE: SBT-BGA-8004 Dwg	DRAWN BY: M. Raske DATE: 02/25/13	SCALE: 3:1




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

Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish
 PCB Pad height: same or higher than solder mask

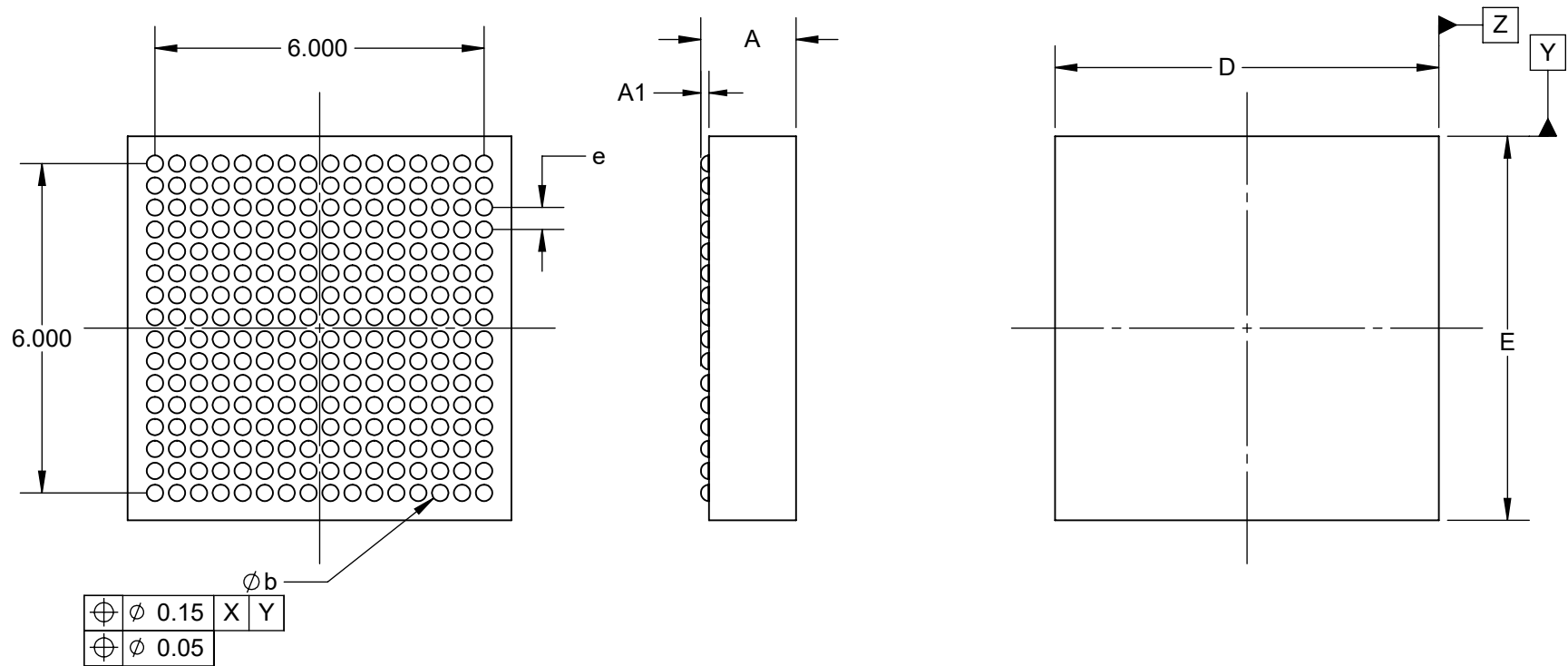
Description: Recommended PCB Layout

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-BGA-8004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 8.54	STATUS: Released ENG: V. Panavala FILE: SBT-BGA-8004 Dwg	SHEET: 2 OF 5 DRAWN BY: M. Raske DATE: 02/25/13	REV. C SCALE: 7:1

Ironwood Package Code: BGA 256B




DIM	Minimum	Maximum
A		2.5
A1	0.15	0.25
b		0.30
D	7.00 BSC	
E	7.00 BSC	
e	0.40 BSC	
ARRAY	16 x 16	

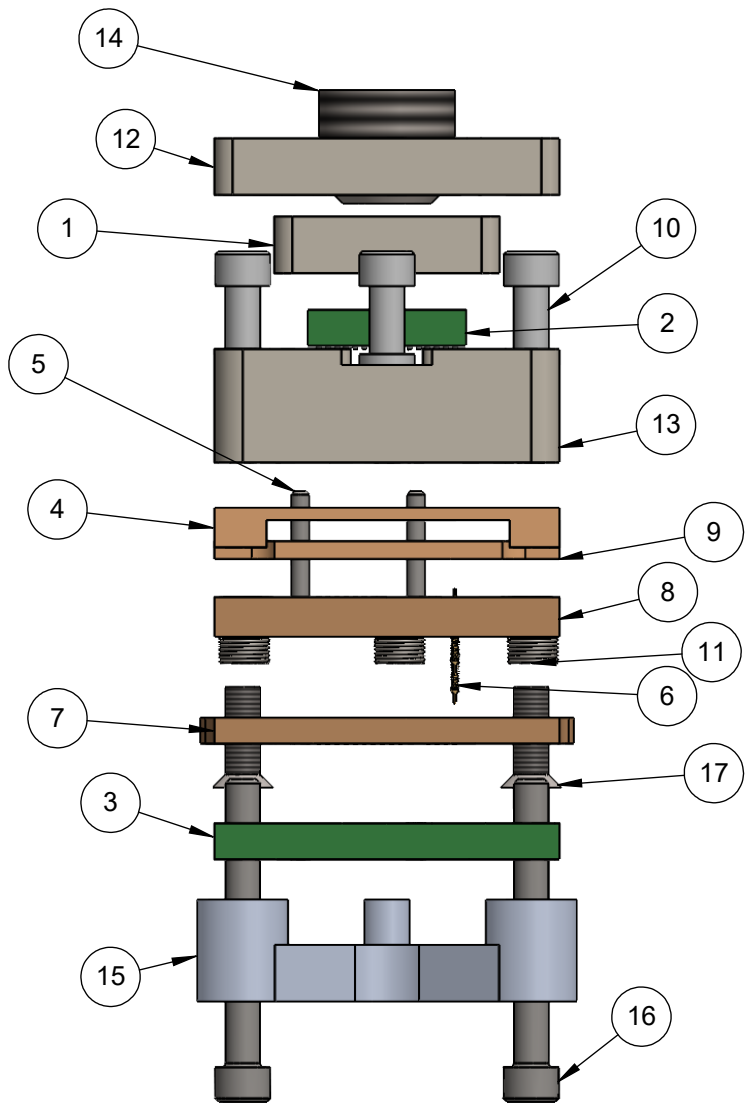
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
4. Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall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

Description: Compatible BGA

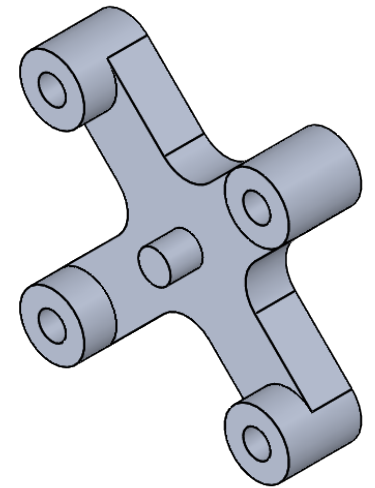
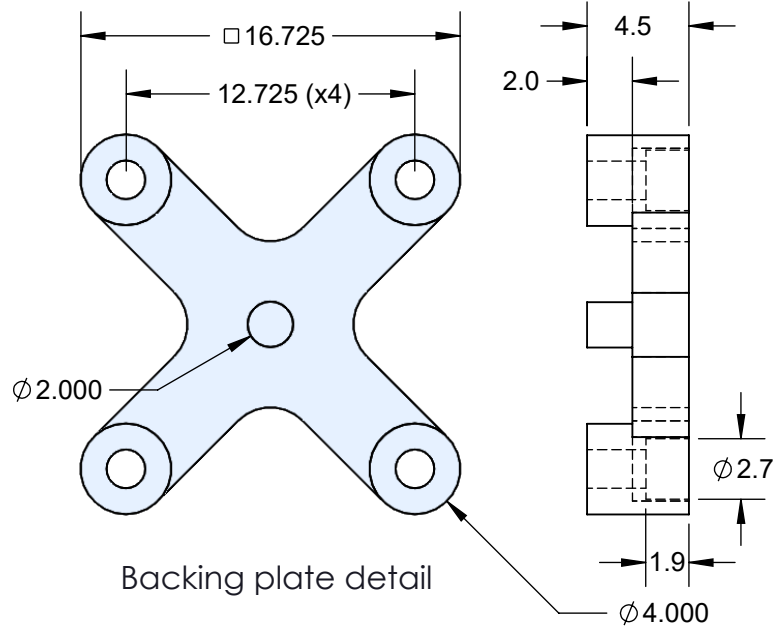
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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-BGA-8004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 8.54	STATUS: Released ENG: V. Panavala FILE: SBT-BGA-8004 Dwg	SHEET: 3 OF 5 DRAWN BY: M. Raske DATE: 02/25/13	REV. C SCALE: 8:1




ITEM NO.	DESCRIPTION	Material
1	Compression Plate	7075-T6 Aluminum Alloy
2	Test Chip	Material <not specified>
3	Test PCB 7x7, 0.4mm pitch, 16x16 array	Material <not specified>
4	IC guide 7mm IC With posts 0.4mm pitch	Semitron MDS 100
5	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
6	Stamped Pin, 0.4mm SBT-BGA	N/A
7	Bottom Guide, 16x16 arr, 0.4mm pitch BGA256	Semitron MDS 100
8	Middle Guide 16x16, 0.4mm pitch BGA256	Semitron MDS 100
9	Floating guide 7mm IC 0.4mm	Semitron MDS 100
10	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
11	Floating Guide Spring	Alloy Steel (SS)
12	Socket Lid	7075-T6 Aluminum Alloy
13	Socket Base SBT BGA 10x10	7075-T6 Aluminum Alloy
14	Compression Screw M6x1	Stainless Steel (18-8)
15	X Shaped Backing Plate 10x10mm IC	7075-T6 Aluminum Alloy
16	#0-80 x 0.5, SH Cap Screw	Alloy Steel
17	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled



Description: Socket Assy, 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-BGA-8004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 8.54	STATUS: Released	SHEET: 4 OF 5	REV. C
		ENG: V. Panavala	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: SBT-BGA-8004 Dwg	DATE: 02/25/13	

Rev	Date	Initials	Description
A	02/25/13	MR	Original
B	02/06/15	DH	Updated layout page
C	3/25/16	MR	Replaced plastic screws with peek screws

Description: Revisions

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-BGA-8004 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. C
		ENG: V. Panavala	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: SBT-BGA-8004 Dwg	DATE: 02/25/13	