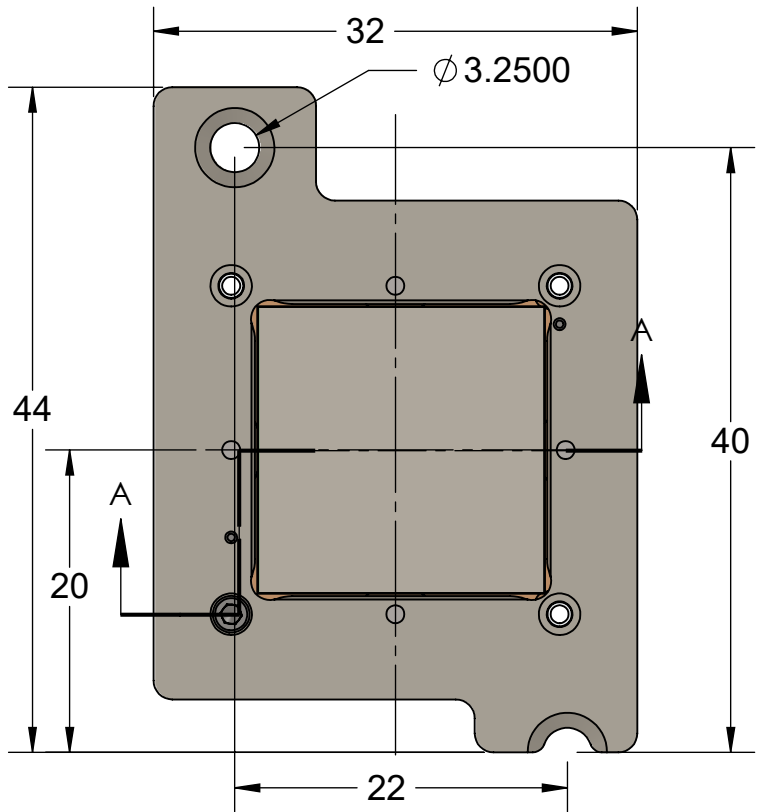
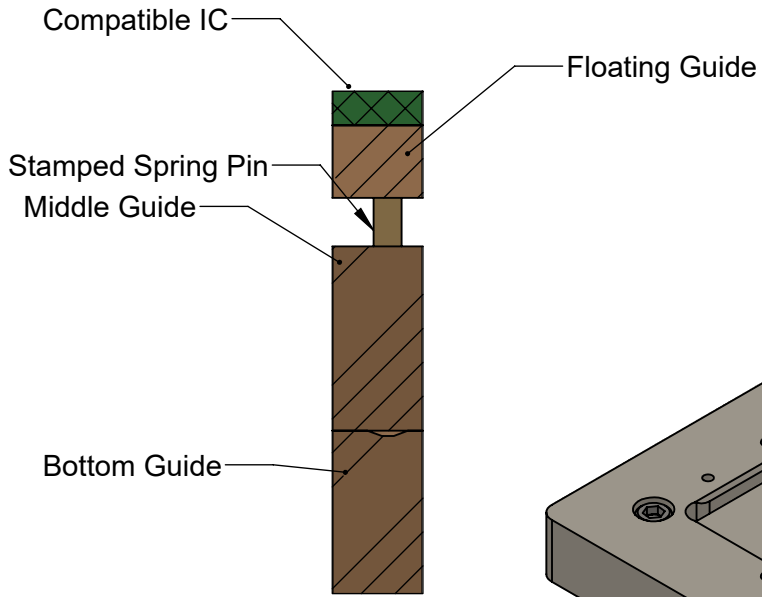


SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

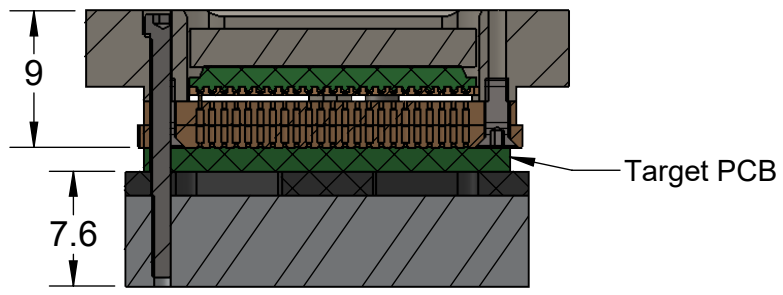


Features

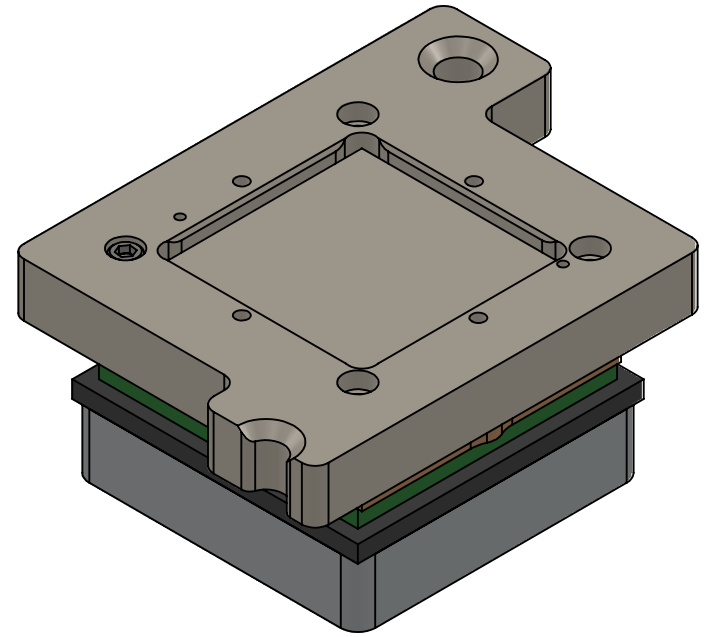
- Wide temperature range (-55C to +180C)
- High current capability (up to 4A)
- Excellent signal integrity at high frequencies
- Low and stable contact resistance for reliable production yield
- Highly compliant to accommodate wide co-planarity variations
- Automated probe manufacturing enables low cost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



Contactor Detail




SECTION A-A

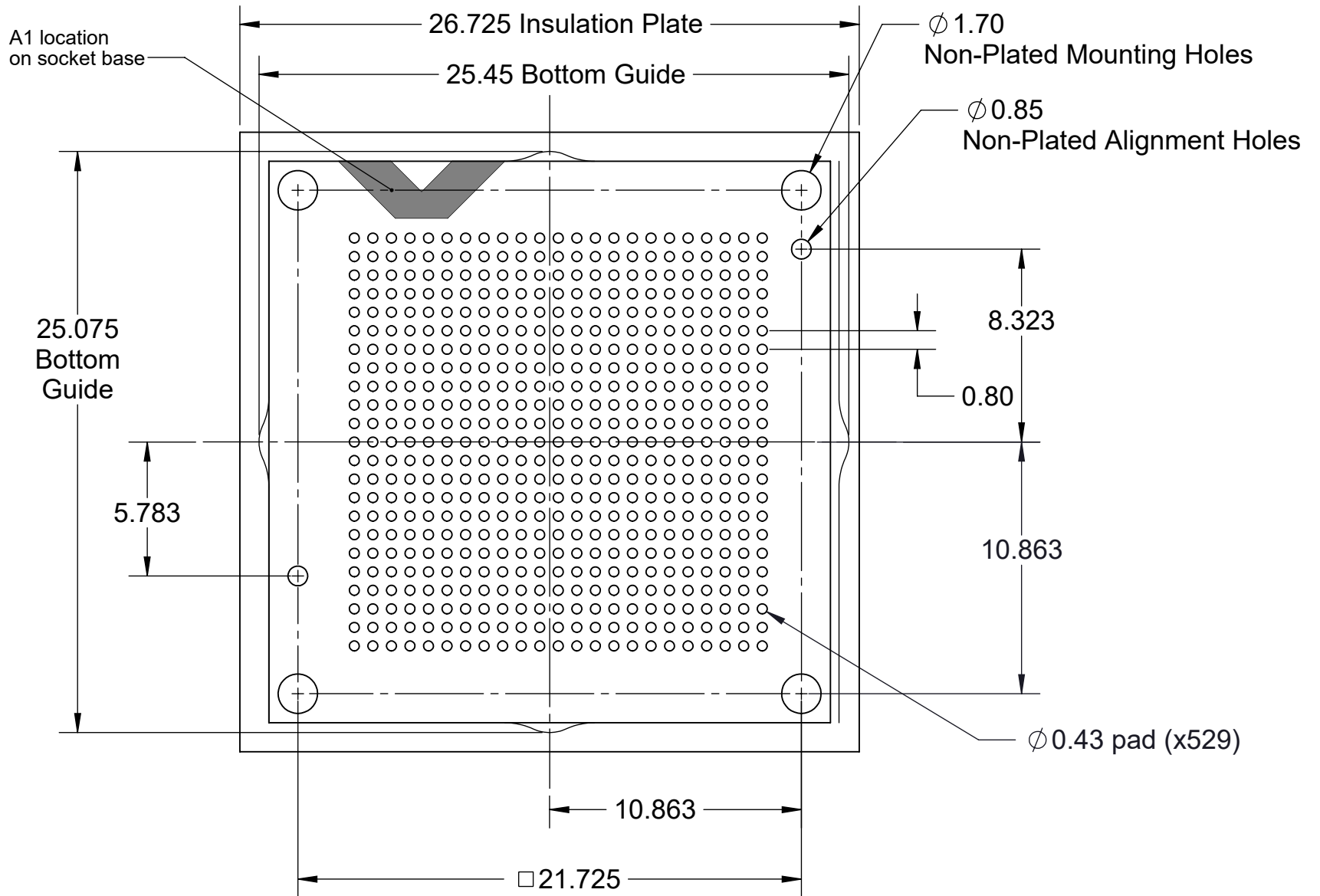


Description: SBT-BGA529 19x19mm 23x23 array 0.8mm pitch

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-BGA-6528 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 31.70	STATUS: Quality Approval Pending	SHEET: 1 OF 5	REV. B
		ENG: S. Huang FILE: SBT-BGA-6528 Dwg	DRAWN BY: M. Raske DATE: 09/18/2015	SCALE: 2:1




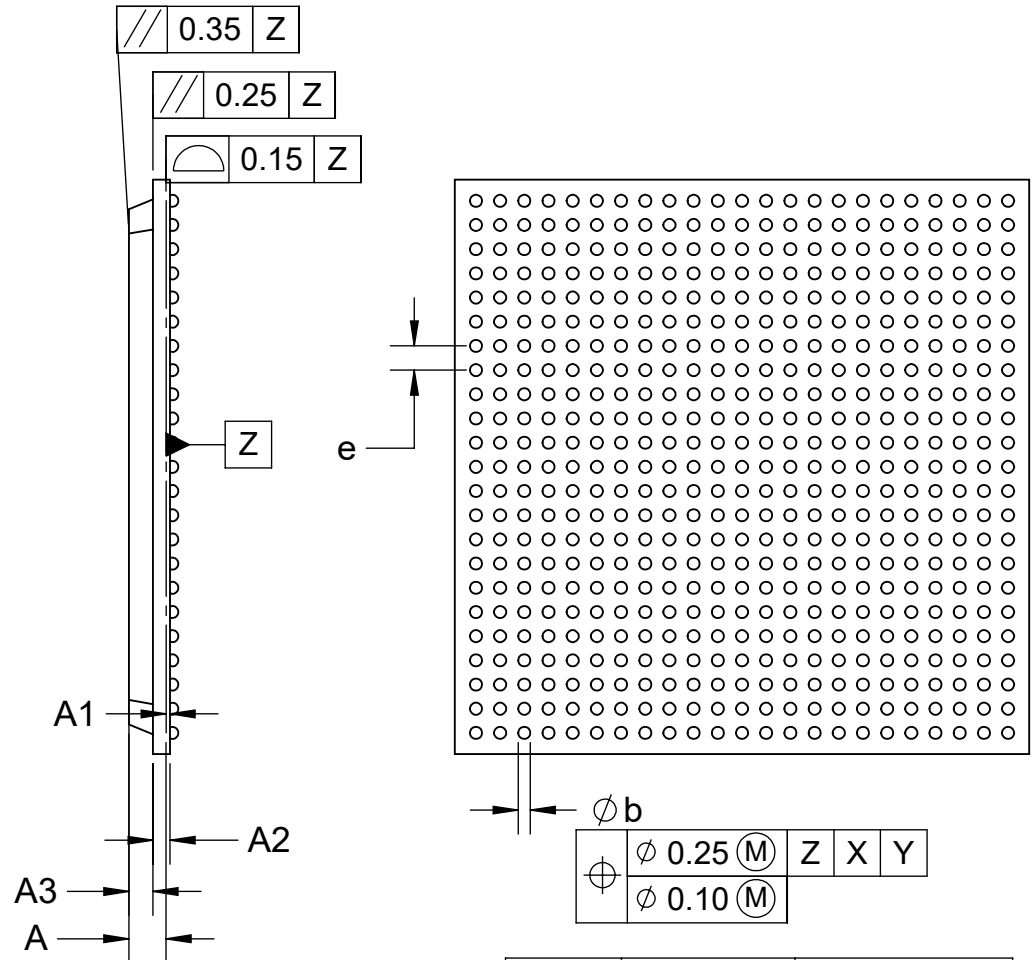
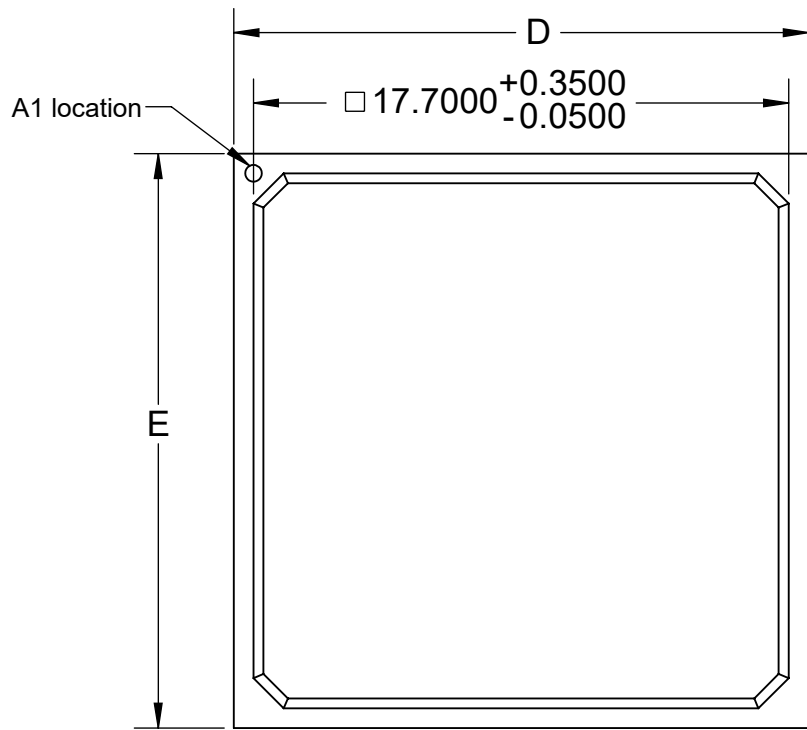
Description: Recommended PCB Layout

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.

Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish

 SBT-BGA-6528 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 31.70	STATUS: Quality Approval Pending	SHEET: 2 OF 5	REV. B
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: SBT-BGA-6528 Dwg	DATE: 09/18/2015	



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.


DIM	Minimum	Maximum
A	1.43	1.85
A1	0.18	0.38
A2	0.50	0.62
A3	0.75	0.85
b	0.30	0.50
D	19.00 BSC	
E	19.00 BSC	
e	0.8 BSC	

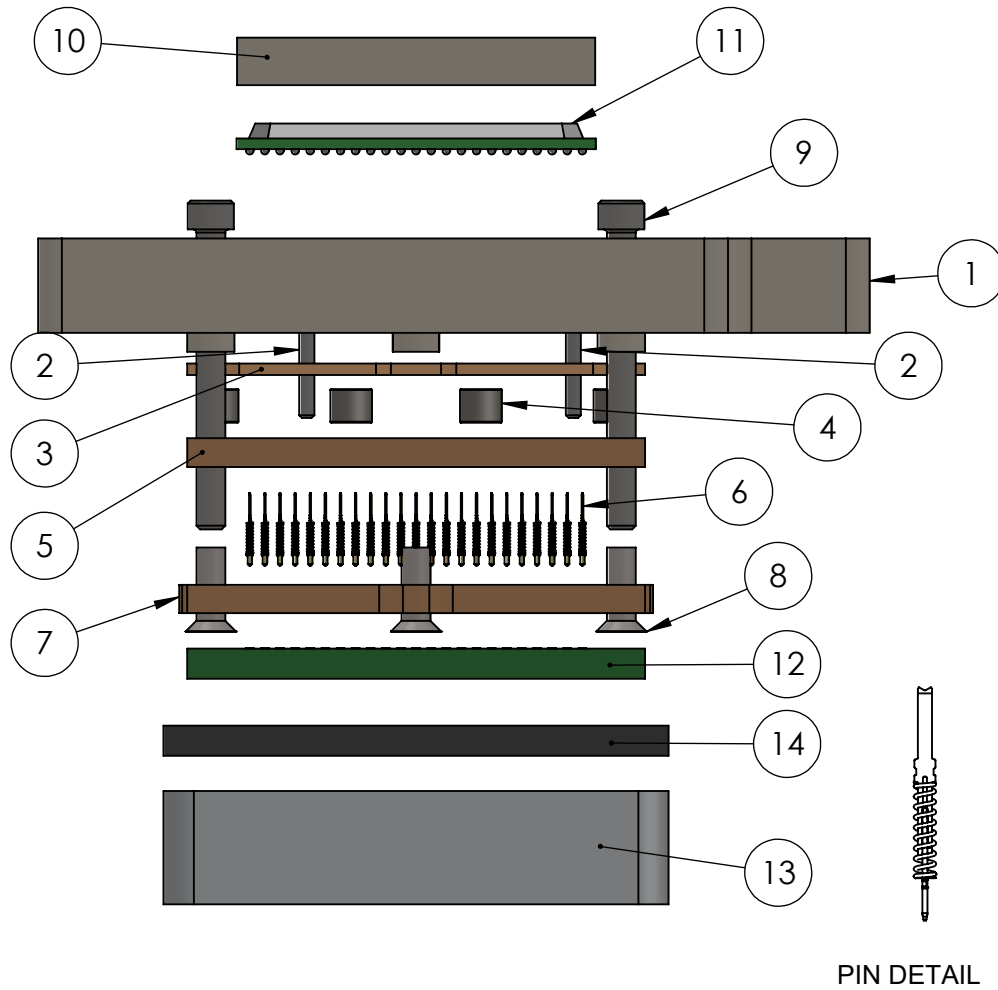
Array: 23x23

Description: BGA

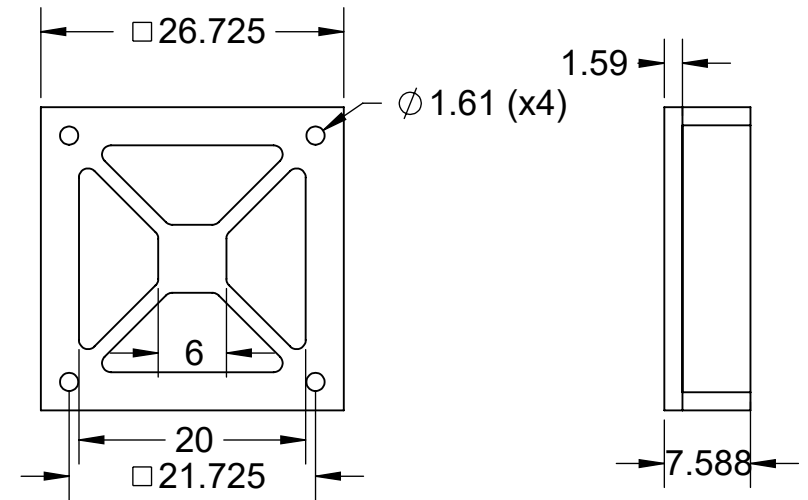
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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-6528 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 31.70	STATUS: Quality Approval Pending ENG: S. Huang FILE: SBT-BGA-6528 Dwg	SHEET: 3 OF 5 DRAWN BY: M. Raske DATE: 09/18/2015	REV. B SCALE: 4:1




ITEM NO.	DESCRIPTION	Material
1	Socket Base	Aluminum Alloy
2	Dowel pin	Stainless Steel
3	Floating Guide	Semitron MDS 100
4	Floating Guide Spring	Stainless Steel
5	Middle Guide	Semitron MDS 100
6	Stamped Spring Pin	Beryllium Copper/ Gold Plated
7	Bottom Guide	Semitron MDS 100
8	Pin Guide Screw	Peek unfilled
9	#0-80 X .625 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
10	Compression Plate 19MM	7075-T6 Alumium Alloy
11	Compatible BGA 19x19mm 0.8mm pitch 23x23 array	FR4 High temp
12	Customer's target PCB	FR4 Standard
13	Backing Plate	7075-T6 Aluminum Alloy
14	Insulation Plate	High Temp Substrate



Description: Socket Material Info

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-6528 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 31.70	STATUS: Quality Approval Pending	SHEET: 4 OF 5	REV. B
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 5:2
		FILE: SBT-BGA-6528 Dwg	DATE: 09/18/2015	

Rev	Date	Initials	Description
B	3/21/18	MR	Replaced socket base screw

Description: Sheet1

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-6528 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight:	STATUS: Quality Approval Pending	SHEET: 5 OF 5	REV. B
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 5:2
		FILE: SBT-BGA-6528 Dwg	DATE: 09/18/2015	