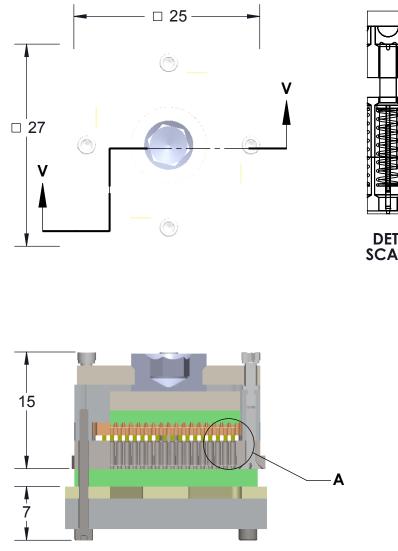
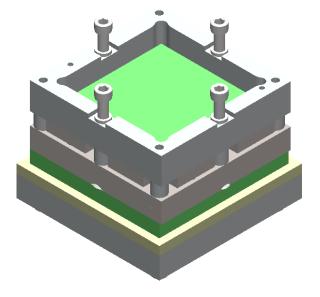
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR **BURN-IN AND TEST APPLICATIONS**



DETAIL A SCALE 8 : 1

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



Socket View without Lid

SECTION V-V

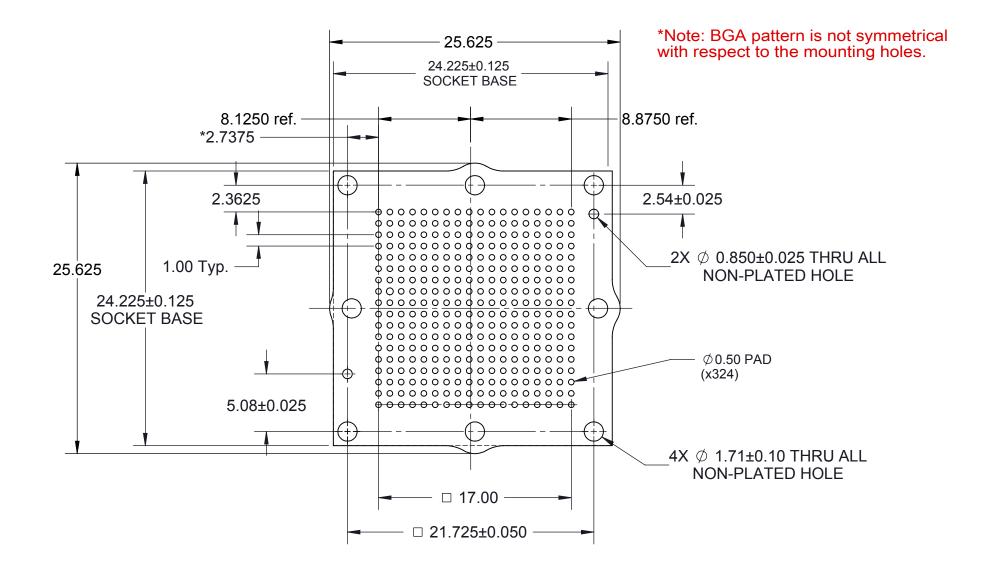
4.00

Description: SBT-BGA Socket, 19M, 1.00MM, 18 x 18 Array

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

<u>Tolerances</u>: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change

SBT-BGA-6005 Drawing Material: -		STATUS: Released	SHEET: 1 OF 5	REV. C
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: - Weight: 25.48	ENG: B. Schatz	DRAWN BY: B. Schatz	SCALE: 2:1
www.ironwoodelectronics.com	Weight. 20.+0	FILE: SBT-BGA-6005	DATE: 7/12/10	



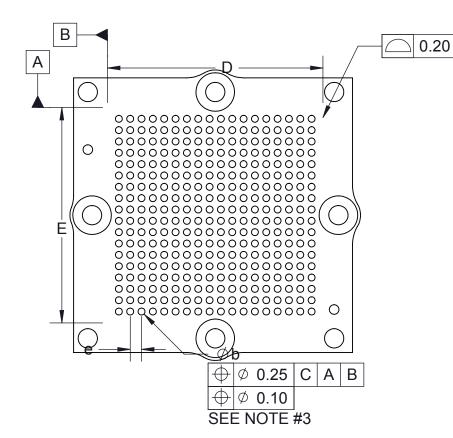
Target PCB Recommendations Total thickness: 1.6mm min. Plating: Gold or Solder finish PCB Pad height: Same or higher than solder mask

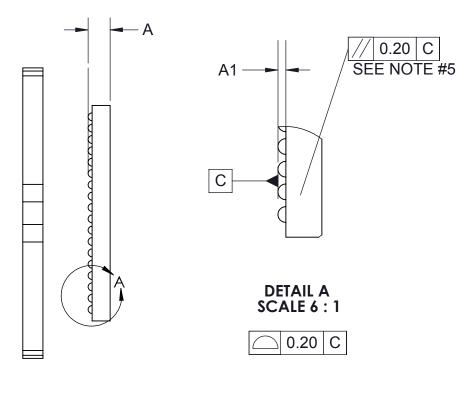
Description: Recommended PCB Layout

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

<u>Tolerances</u>: 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

SB	T-BGA-6005 Drawing	Material.	STATUS: Released	SHEET: 2 OF 5	REV. C
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: - Weight: 25.48	ENG: B. Schatz	DRAWN BY: B. Schatz	SCALE: 3:1	
		- 5	FILE: SBT-BGA-6005	DATE: 7/12/10	





Ironwood package Code: BGA324G

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

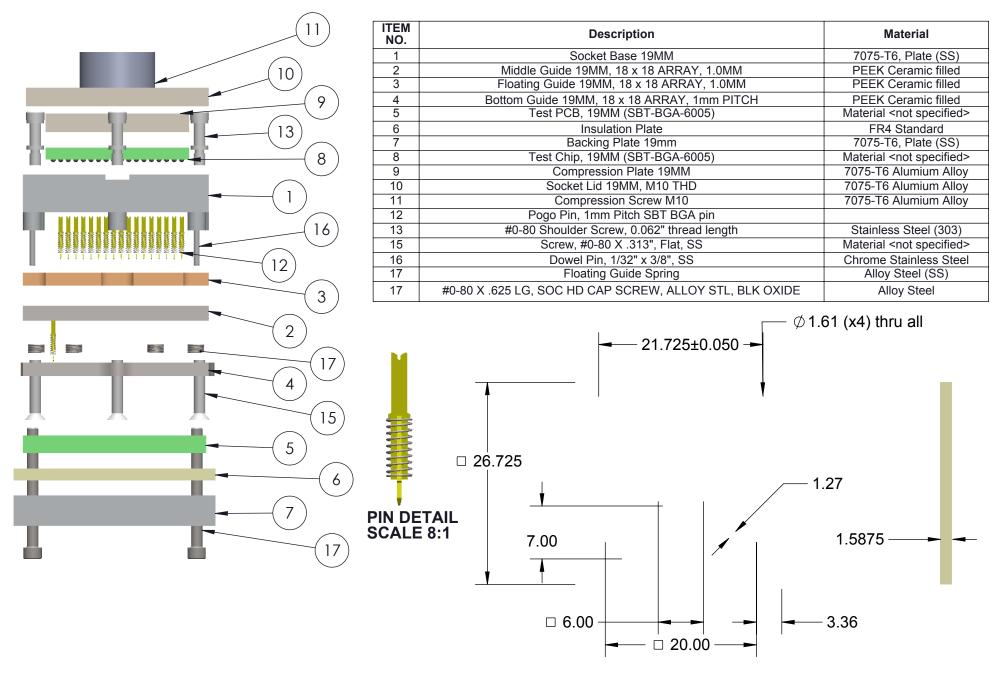
Description: Compatible BGA

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

Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change

SBT-BGA-6005 Drawing	Finish:	STATUS: Released	SHEET: 3 OF 5	REV. C
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: B. Schatz	DRAWN BY: B. Schatz	SCALE: 3:1
www.ironwoodelectronics.com	Weight 20.40	FILE: SBT-BGA-6005 DATE: 7/12/10	DATE: 7/12/10	

DIM	Minimum	Maximum	
A		3.00	
A1	0.3	0.6	
b		0.7	
D	19.0 BSC		
E	19.0 BSC		
е	1.00 BSC		
ARRAY SIZE	18 X 18		
PIN COUNT	324		



INSULATION PLATE DETAIL

Description: BOM/ Pin Detail

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

Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SE	BT-BGA-6005 Drawing	Material: -	STATUS: Released	SHEET: 4 OF 5	REV. C
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: - Weight: 25.48	ENG: B. Schatz	DRAWN BY: B. Schatz	SCALE: 2:1	
			FILE: SBT-BGA-6005	6005 DATE: 7/12/10	

Rev	Date	Initials	Description
Α	7/12/10	VP	Original
В	7/13/13	BHS	Moved posts from middle guide and added those to socket base
С	03/12/15	GL/DH	Updated PCB layout page to add bump outs.

Description: Revisions

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

<u>Tolerances</u>: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SBT-BGA-6005 Drawing	Finish:	STATUS: Released	SHEET: 5 OF 5	REV. C
©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: B. Schatz	DRAWN BY: B. Schatz	SCALE: 2:1
www.ironwoodelectronics.com		FILE: SBT-BGA-6005	DATE: 7/12/10	