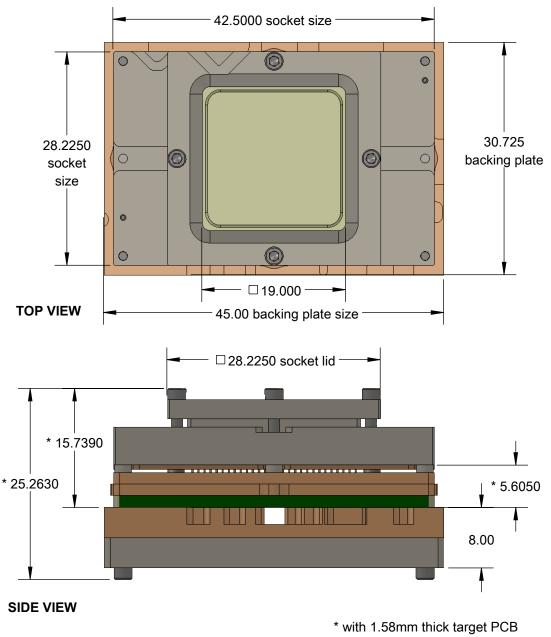
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



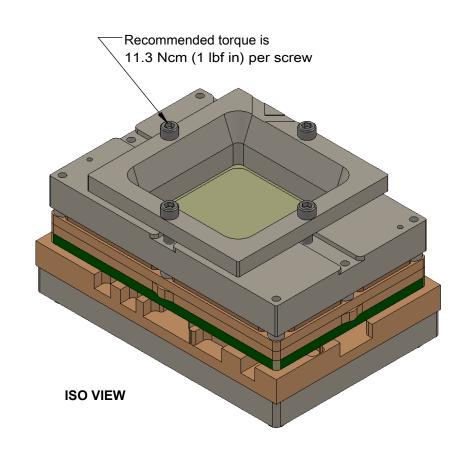
FEATURES:

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

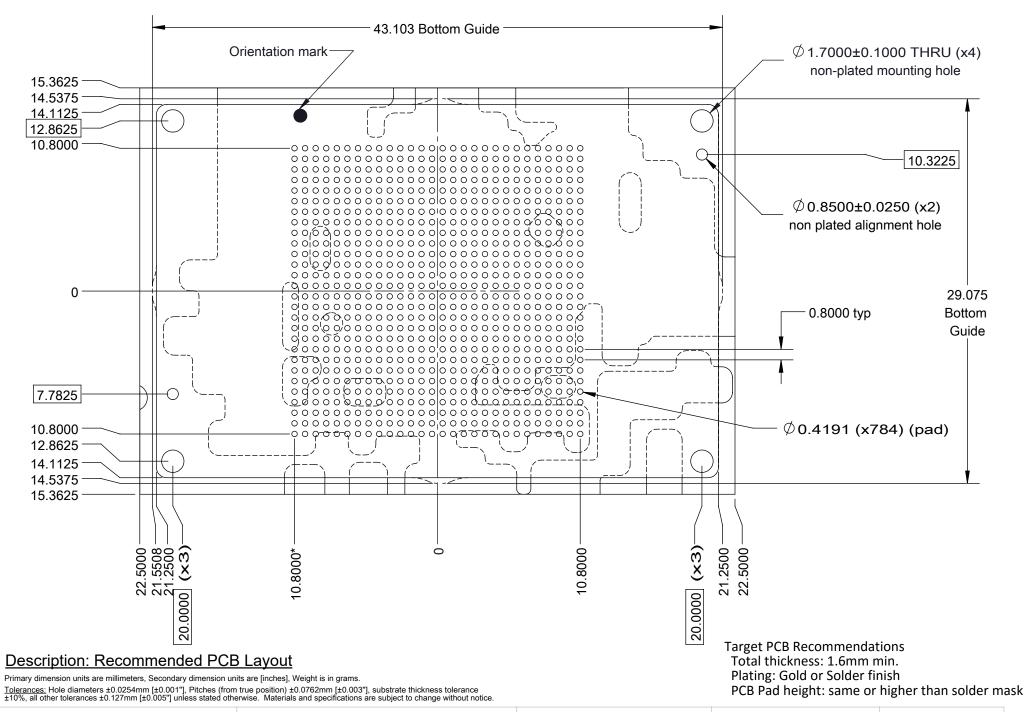


Description: Socket Specification

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

Tolerances: 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-6533 Drawing Material: N/A		STATUS: Released	SHEET: 1 OF 5	REV. A	
•	©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Weight: 44.10	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:1
			FILE: SBT-BGA-6533 Dwg	DATE: 02/17/2016	

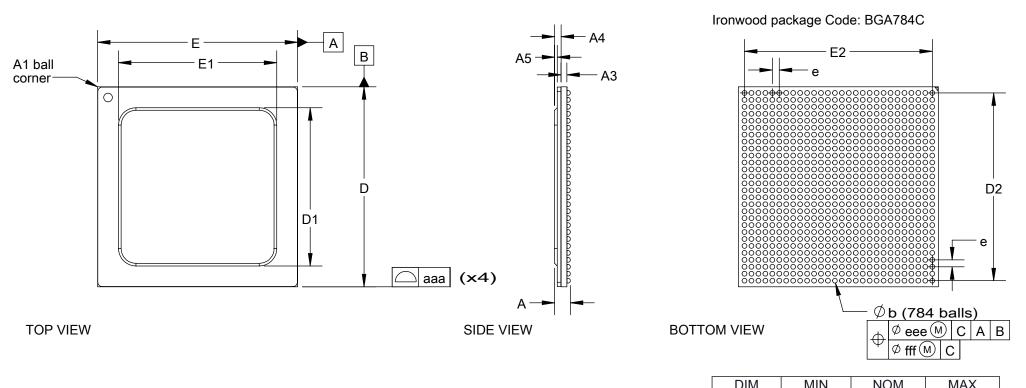


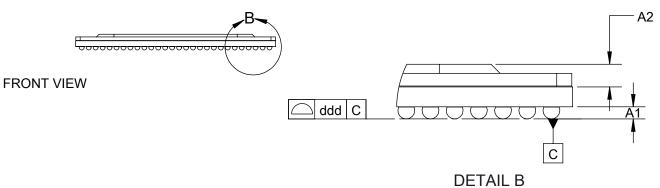
SBT-BGA-6533 Drawing

©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 44.10
 STATUS: Released
 SHEET: 2 OF 5
 REV. A

 ENG: E. Smolentseva
 DRAWN BY: M. Raske
 SCALE: 3.5:1

 FILE: SBT-BGA-6533 Dwg
 DATE: 02/17/2016





IVIIIN	INCIVI	IVIAA
		1.92
0.27		
	0.75	
	0.66	
	0.40	
	0.30	
	0.50	
22.80	23.00	23.20
	18.20	
	21.60	
22.80	23.00	23.20
	18.20	
	21.60	
0.80 BSC		
0.20		
0.15		
0.25		
0.10		
28 X 28		
784		
	22.80	0.27 0.75 0.66 0.40 0.30 0.50 22.80 23.00 18.20 21.60 22.80 23.00 18.20 21.60 0.80 BSC 0.20 0.15 0.25 0.10 28 X 28

- 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 C.
 Datum C (seating plane) is defined by the spherical crowns of the solder balls.
 Parallelism measurement shall exclude any effect of mark on top surface of package.

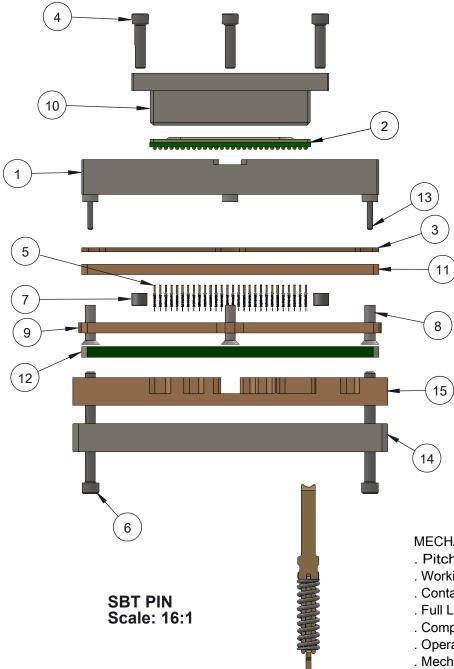
Description: Compatible BGA

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

Tolerances: Hole diameters ±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.

SB	T-BGA-6533 Drawing	GA-6533 Drawing Material: N/A		SHEET: 3 OF 5	REV. A
	©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Weight: 44.10	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 2.3:1
T			FILE: SBT-BGA-6533 Dwg	DATE: 02/17/2016	

SCALE 8:1



ITEM NO.	DESCRIPTION	Material	
1	Socket Base	7075-T6 Aluminum Alloy	
2	Customer's BGA IC	FR4 Standard	
3	Floating Guide	Semitron MDS 100	
4	4 #0-80 X .25 LG, SOC HD CAP SCREW, Alloy Steel		
5	SBT Pin, SBT-BGA 0.5mm-0.8mm		
6	#0-80 X .625 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel	
7	Floating Guide Spring	Alloy Steel (SS)	
8	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled	
9	Bottom Pogo pin Guide	Semitron MDS 100	
10	Open Top Lid	7075-T6 Aluminum Alloy	
11	Middle Pogo Guide BGA784 23x23mm 0.8mm 28x28 array	Semitron MDS 100	
12	Customer's target PCB	FR4 Standard	
13	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)	
14	Backing Plate	7075-T6 Aluminum Alloy	
15	Insulation plate	Ultem 1000	

MECHANICAL PROPERTIES:

. Pitch: 0.50mm (min)-0.8mm(max.)

. Working Travel: 0.43mm

. Contact Force@ working travel: 30.9 gf

. Full Length: 3.86mm

. Compressed Length: 3.43mm

. Operating Temperature: -55°C to +180°C

. Mechanical Life: 125,000+ cycles

ELECTRICAL PROPERTIES:

. Contact Resistance: <35mohms

. Current Rating (60C rise): 4 amp

. Self Inductance: 0.88 nH . Capacitance: 0.097 pF

. Bandwidth @ -1dB: 5.2 to 15.7 GHz

MATERIALS:

. Stamped Contact: BeCu, Au Plate Over Ni

. Spring SS, Au Plate

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

Tolerances: 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.

Backing Plate Specification

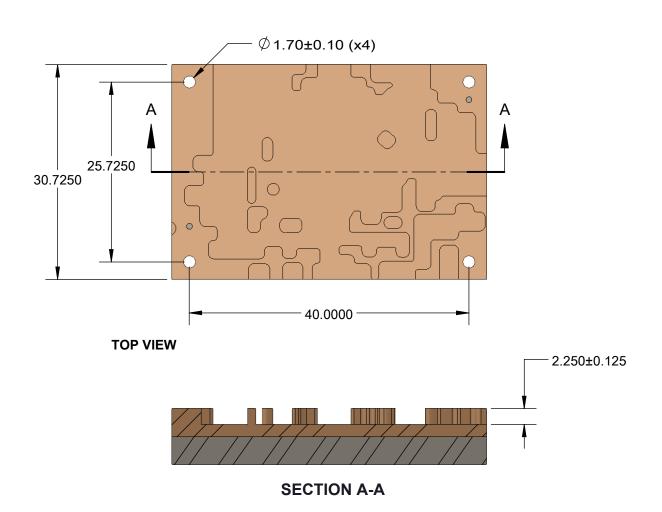


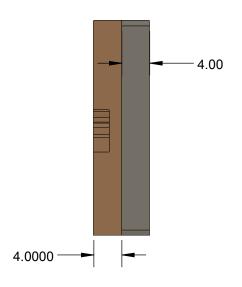
©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com

Description: Socket assembly

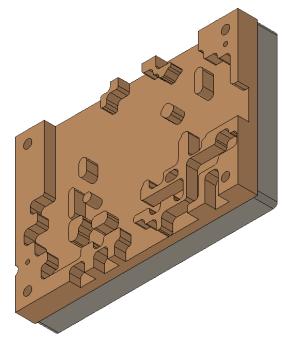
Material: N/A Finish: N/A Weight: 44.10

STATUS: Released	SHEET: 4 OF 5	REV. A	
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.85:1	
FILE: SBT-BGA-6533 Dwg	DATE: 02/17/2016		





SIDE VIEW



Description: Insulating and backing plate

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-6533 Drawing



©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 44.10

STATUS: Released	SHEET: 5 OF 5	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.85:1
FILE: SBT-BGA-6533 Dwg	DATE: 02/17/2016	

ISO VIEW