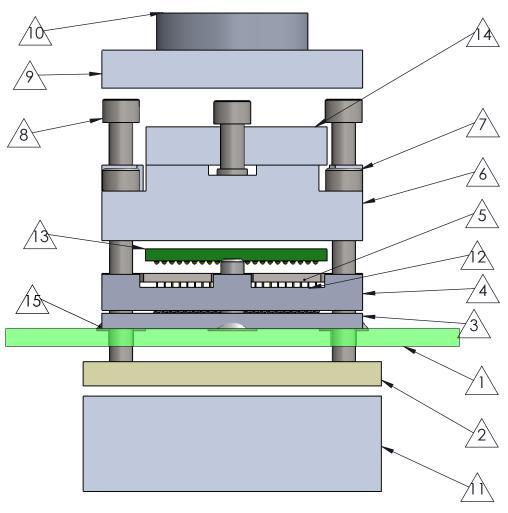
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR **BURN-IN AND TEST APPLICATIONS**



Description: SBT-BGA-7000 Exploded View (12x12mm, 0.5mm pitch, 22x22 array BGA)

Primary dimension units are millimeters, Secondary dimension units are [inches].

Tolerances: diameters ±0.03mm [±0.001"], PCB perimeters ±0.13mm [±0.005"], PCB thicknesses ±0.18mm [±0.007"], pitches (from true position) ±0.08mm [±0.003"], all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

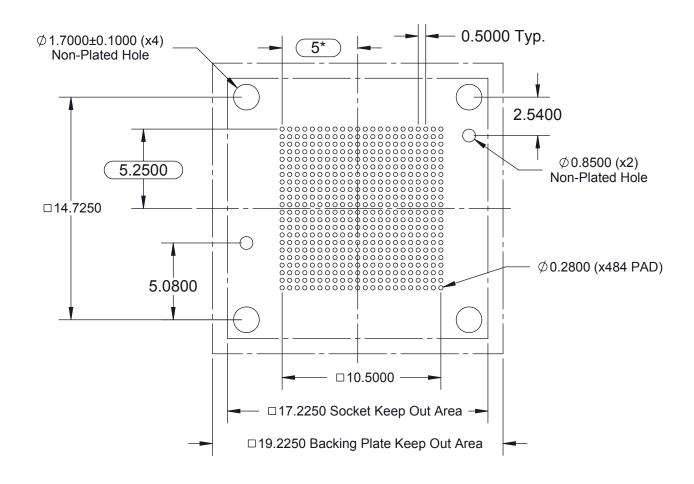
Features

- Wide temperature range (-55C to +180C)
- High current capability (up to 8A)
 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

ITEM NO.	Description	Material	
1	Target PCB	FR4	1
2	Insulation Plate	FR4	1
3	Bottom Guide	PEEK Ceramic filled	1
4	Middle Pogo Guide	PEEK Ceramic filled	1
5	Floating Guide PEEK Ceramic filled		1
6	Socket Base	7075-T6 Aluminuim	
7	Socket Base Cap Screw		
8	0-80 Shoulder screw	er screw AISI 321 Annealed Stainless Steel (SS)	
9	Socket Lid	7075-T6 Aluminum Alloy	1
10	Compression Screw	7075-T6 Aluminum Alloy	1
11	Backing Plate	7075-T6 Aluminum Alloy	1
12	SBT-BGA 0.5mm pin		484
13	BGA with 484 pin with 0.5mm Pitch		1
14	Compression Plate 7075-T6 Aluminum Alloy		1
15	Pogo Guide Screw	18-8 stainless steel	4

SBT-BGA-7000 Drawing		STATUS: Released	SHEET 1 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204	WEIGHT:	DRAWN BY: Vinayak R	SCALE: 1:1	
www.ironwoodelectronics.com	MATERIAL: FINISH:	File: SBT-BGA-7000 Dwg	DATE: 5/13/2009	

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



Description: SBT-BGA-7000 Recommended PCB layout

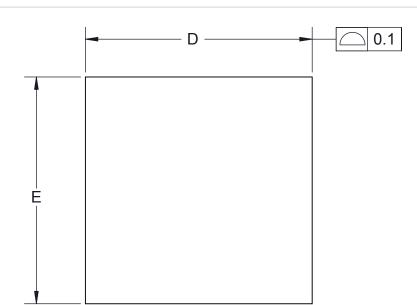
Primary dimension units are millimeters, Secondary dimension units are [inches].

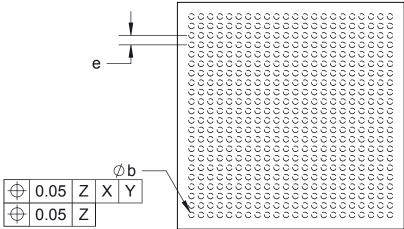
Tolerances: diameters ± 0.03 mm [± 0.001 "], PCB perimeters ± 0.13 mm [± 0.005 "], PCB thicknesses ± 0.18 mm [± 0.007 "], pitches (from true position) ± 0.08 mm [± 0.003 "], all other tolerances ± 0.13 mm [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change without notice.

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

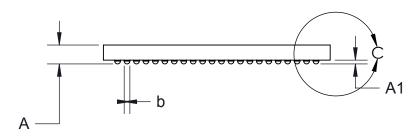
PCB Pad	neignt:	Same or	nigner	than solder	mask

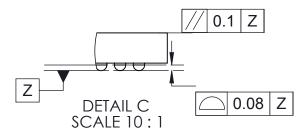
SBT-BGA-70	000 Drawing	STATUS:Released	SHEET 2 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	WEIGHT:	DRAWN BY: Vinayak R	SCALE: 4:1	
	MATERIAL: FINISH:	File: SBT-BGA-7000 Dwg	DATE: 5/13/2009	





22x22 Full Array





Description: BGA with 484 pin with 0.5mm Pitch

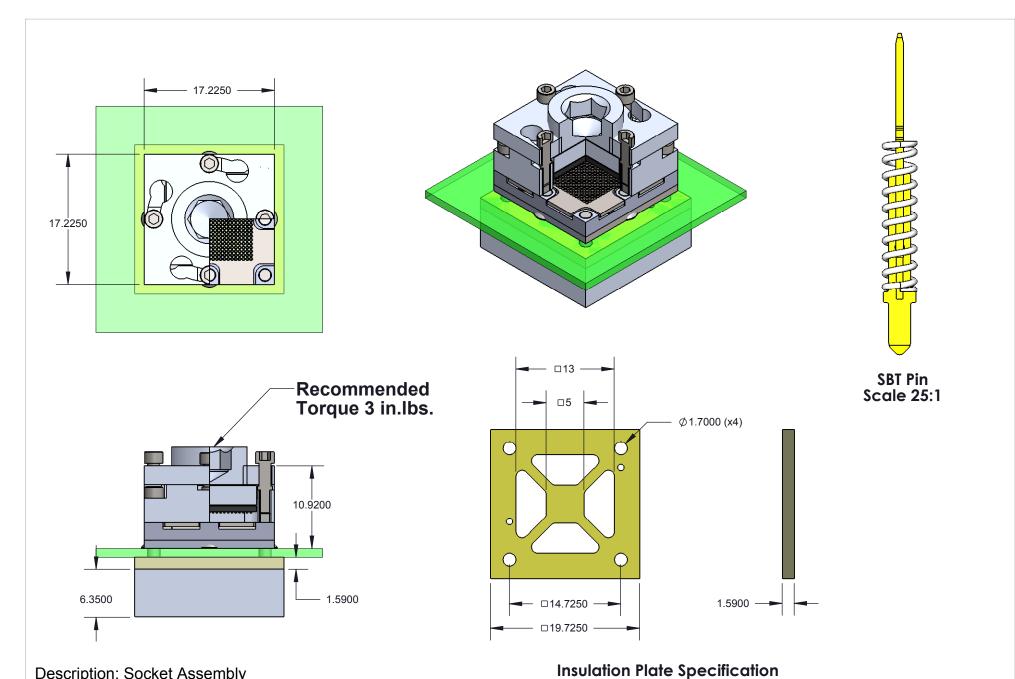
Primary dimension units are millimeters, Secondary dimension units are [inches].

Tolerances: diameters ± 0.03 mm [± 0.001 "], PCB perimeters ± 0.13 mm [± 0.005 "], PCB thicknesses ± 0.18 mm [± 0.007 "], pitches (from true position) ± 0.08 mm [± 0.003 "], all other tolerances ± 0.13 mm [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change without notice.

- 1. Dimensions are in millimeters.
- Interpret dimensions and tolerances per ASME Y14.5M-1994.
 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
- 5. Parallelism measurement shall exclude any effect of mark on top surface of package.

DIM	Minimum	Maximum	
Α		2.5	
A1	0.2	0.4	
b	0.25	0.4	
D	12	2.0 BSC	
Е	12.0 BSC		
е	0.5 BSC		

SBT-B	GA-7000 Drawing	STATUS: Released	SHEET 3 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204	WEIGHT:	DRAWN BY: Vinayak R	SCALE: 5:1	
www.ironwoodelectronics.com	MATERIAL: FINISH:	File: SBT-BGA-7000 Dwg	DATE: 5/13/2009	



Description: Socket Assembly

Primary dimension units are millimeters, Secondary dimension units are [inches].

Tolerances: diameters ±0.03mm [±0.001"], PCB perimeters ±0.13mm [±0.005"], PCB thicknesses ±0.18mm [±0.007"], pitches (from true position) ±0.08mm [±0.003"], all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SBT-BGA-7000 Drawing		STATUS: Released	SHEET 4 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	WEIGHT: MATERIAL: FINISH:	DRAWN BY: Vinayak R	SCALE: 2:1	
		File: SBT-BGA-7000 Dwg	DATE: 5/13/2009	