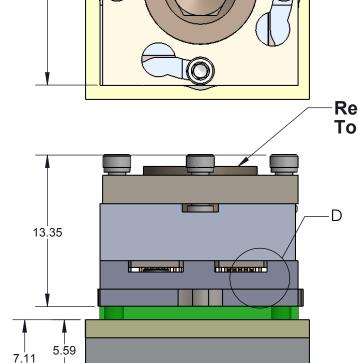
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

Features

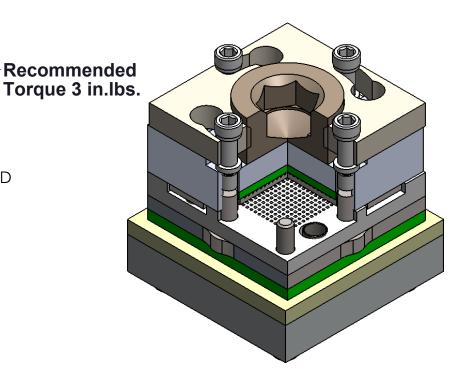
- Wide temperature range (-55C to +180C)

- 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



17.2250





DETAIL D SCALE 16:1

Description: SBT-BGA Socket, 12 X 12, 0.5mm, 22 X 22 Array

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. $\underline{Iolerances:} \ Hole\ diameters\ \pm 0.03mm\ [\pm 0.001"],\ Pitches\ (from\ true\ position)\ \pm 0.025mm\ [\pm 0.001"],\ substrate\ thickness\ tolerance\ \pm 10\%,\ all\ other\ tolerances\ \pm 0.13mm\ [\pm 0.005"]\ unless\ stated\ otherwise.\ Materials\ and\ specifications\ are\ subject\ to\ change$

S	BT-BGA-7000 Drawi	ng
	Ironwood Electronics	Inc

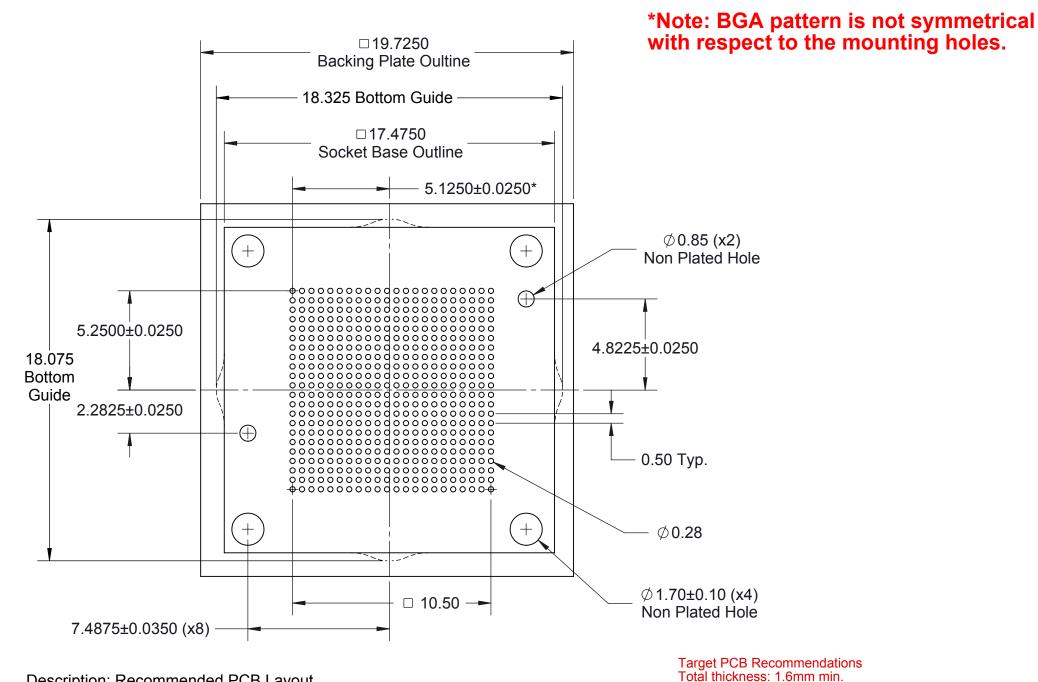
17.2250

Tele: (800) 404-0204 www.ironwoodélectronics.com

Material: Material <not specified> Finish:

Weight: 13.02

STATUS: Released	SHEET: 1 OF 5	REV. G
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 3:1
FILE: SBT-BGA-7000	DATE: 11/12/10	



Description: Recommended PCB Layout

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

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

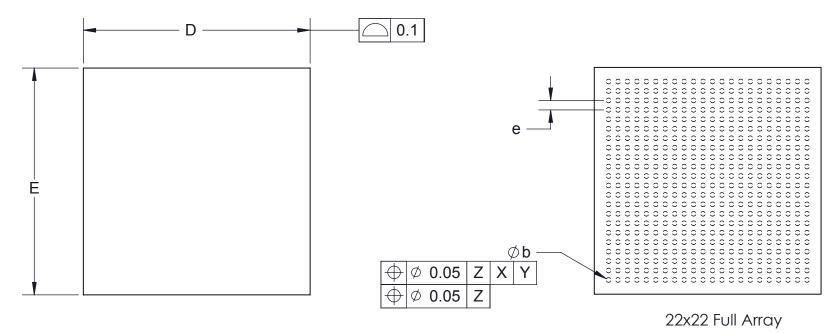
Plating: Gold or Solder finish PCB Pad height: Same or higher than solder mask

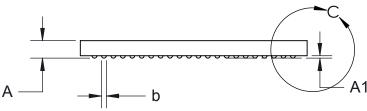
SBT-BGA-7000 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com

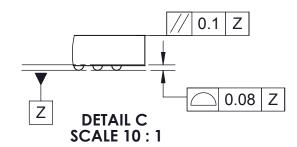
Material: Material <not specified> Finish:

Weight: 13.02

STATUS: Released	SHEET: 2 OF 5	REV. G
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 5:1
FILE: SBT-BGA-7000	DATE: 11/12/10	







Description: BGA

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 without notice.

Ironwood package code: BGA484M

- 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.
- 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.

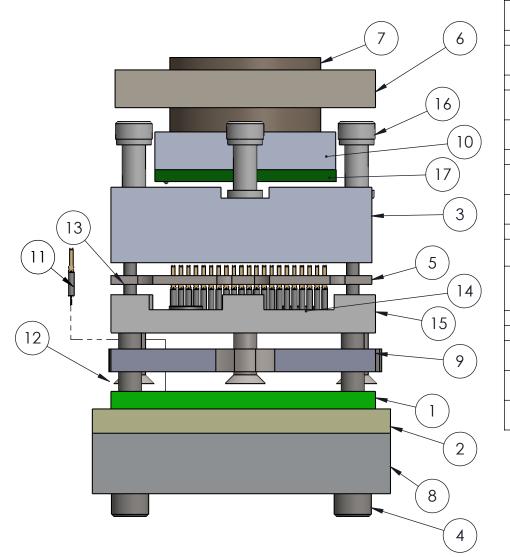
DIM	Minimum	Maximum	
Α		2.5	
A1	0.2	0.4	
b	0.25	0.4	
D	12.0 BSC		
E	12.0 BSC		
е	0.5 BSC		

SBT-BGA-7000 Drawing

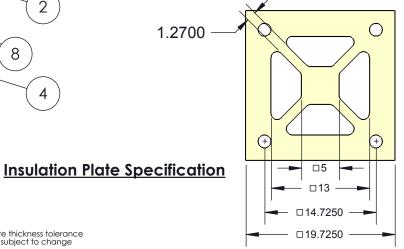


Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: Material <not specified> Finish: none Weight: 0.12

STATUS: Released	SHEET: 3 OF 5	REV. G
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 5:1
FILE: SBT-BGA-7000	DATE: 11/12/10	



ITEM NO.	Description	Material
1	Target PCB 0.5mm pitch 22x22 array	Material <not specified=""></not>
2	Insulation Plate	FR4 High temp
3	SBT Socket Base 12mm Ni plated 0.25mm shift	7075-T6 Aluminuim
4	#0-80 x 0.5, SH Cap Screw	Alloy Steel
5	Floating Guide 12x12mm 0.5mm pitch 22x22 array	PEEK Ceramic filled
6	SBT Nickel plated socket Lid, 12x12mm	7075-T6 Aluminum Alloy
7	Compression Screw M10	7075-T6 Alumium Alloy
8	SBT/CBT Ni Plated 12mm Backing Plate	7075-T6, Plate (SS)
9	Bottom Guide 12mm 0.5mm pitch 22x22 array	PEEK Ceramic filled
10	Compression Plate	7075-T6 Aluminum Alloy
11	SBT Pin, SBT-BGA 0.5mm-0.8mm	
12	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
13	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
14	Floating Guide Spring	Alloy Steel (SS)
15	Middle Pogo Guide 12x12mm 0.5mm pitch 22x22 array	PEEK Ceramic filled
16	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)
17	BGA with 484 pin with 0.5mm Pitch	Material <not specified=""></not>



- 1.5875

Description: Socket Material Info

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 without notice.

	SBT-BGA	-7000	Dra	wing	
_					-

	Ironwood Electronics, Inc.
8	Tele: (800) 404-0204
,	www.ironwoodelectronics.com

Material: Material <not specified> Finish:

Weight: 13.02

STATUS: Released	SHEET: 4 OF 5	REV. G
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 1:1
FILE: SBT-BGA-7000	DATE: 11/12/10	

Rev	Date	Initials	Description	
А	11/12/10	VP	Original	
В	11/16/10	MT	Updated part	
С	01/11/12	MT/MR	Replaced M2717 with M2630	
D	07/17/13	DH	Skipped rev	
Е	07/17/13	DH	Replaced M2716 with M1082	
F	02/19/14	DH	Changed current rating of pin	
G	3/11/15	RP/MR	Changed spring pin and guides to new design. Changed dowel pin protrusion length. Contact Ironwood for details.	

Description: Modifications

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 without notice.

SBT-BGA-7000 Drawing	Material:	STATUS: Released	SHEET: 5 OF 5	REV. G
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: Weight:	ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 1:1
www.ironwoodelectronics.com	vvoignt.	FILE: SBT-BGA-7000	DATE: 11/12/10	