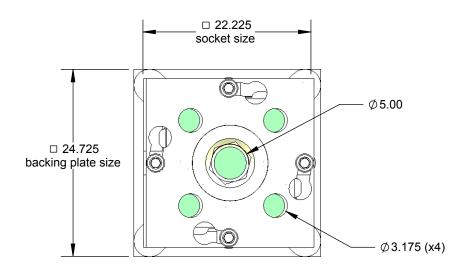
# SBT-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR **BURN-IN AND TEST APPLICATIONS**

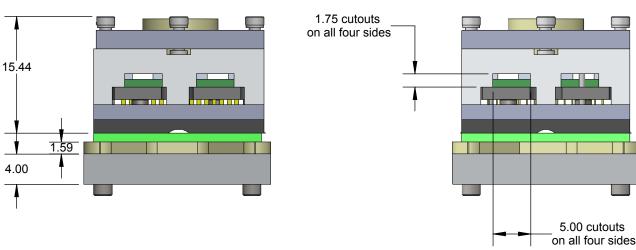


#### **Features**

- 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.





#### Description: SBT-BGA Socket 17x17mm, 1mm, 16x16 array

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

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.

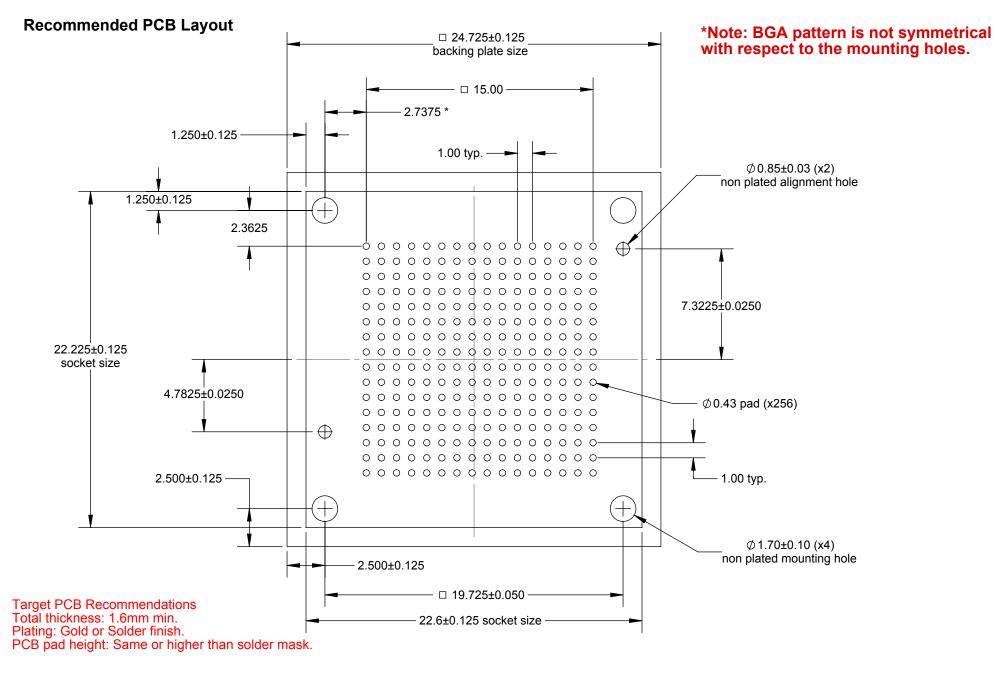
SBT-BGA-6023 Drawing			
A	Ironwood Electronics, Inc. Tele: (800) 404-0204		

Material: Material <not specified>

Finish:

Weight: 20.97

STATUS: Released	SHEET: 1 OF 7	REV. A
DRAWN BY: D. Hauer	SCALE: 2:1	
FILE: SBT-BGA-6023 Dwg	DATE: 09/08/2012	

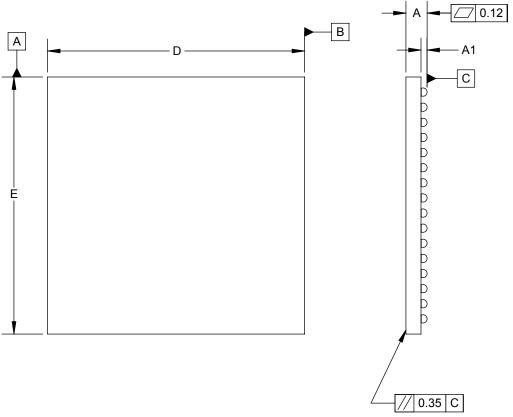


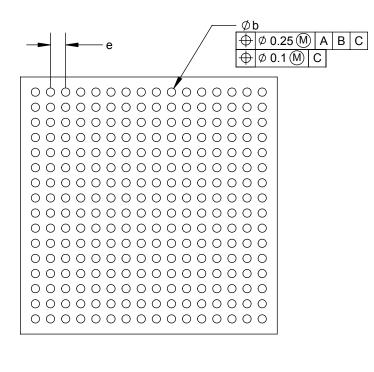
#### Description: SBT-BGA Socket 17x17mm, 1mm, 16x16 array

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

	SBT-BGA-6023 Drawing	Material: Material <not specified=""> Finish:</not>	STATUS: Released	SHEET: 2 OF 7	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com			DRAWN BY: D. Hauer	SCALE: 2:1	
	www.ironwoodelectronics.com	Weight: 20.97	FILE: SBT-BGA-6023 Dwg	DATE: 09/08/2012	

#### Compatible BGA IC





**Minimum** 

0.35

0.45

**Maximum** 

1.55

0.45

0.55

17mm±0.2mm

17mm±0.2mm

1.00 BSC

16 X 16

256

DIM

Α

**A1** 

b

D

Ε

е

**ARRAY SIZE** 

PIN COUNT

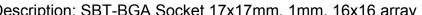
## Ironwood Package Code: BGA256E4

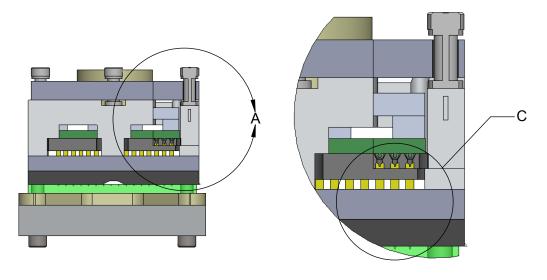
- Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C. 3.
- Datum C (seating plane) is defined by the spherical crowns of the solder balls.
- Parallelism measurement shall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

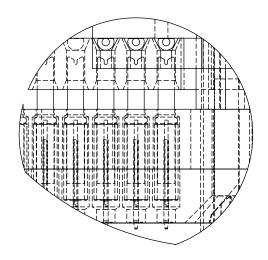
#### Description: SBT-BGA Socket 17x17mm, 1mm, 16x16 array

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

	SBT-BGA-6023 Drawing	Material: Material <not specified=""></not>	STATUS: Released	SHEET: 3 OF 7	REV. A
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com  Finish: Weight: 20.97	DRAWN BY: D. Hauer	SCALE: 4:1		
		FILE: SBT-BGA-6023 Dwg	DATE: 09/08/2012		

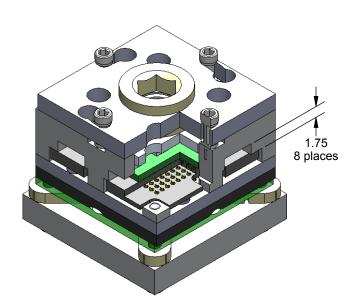


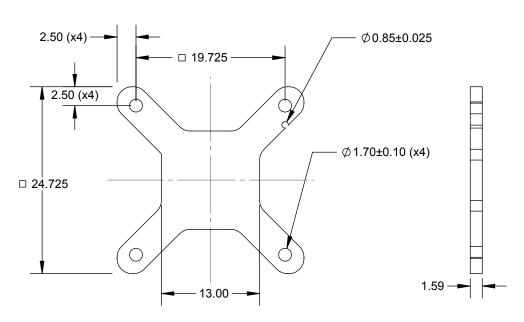




DETAIL A SCALE 4:1

DETAIL C SCALE 8 : 1



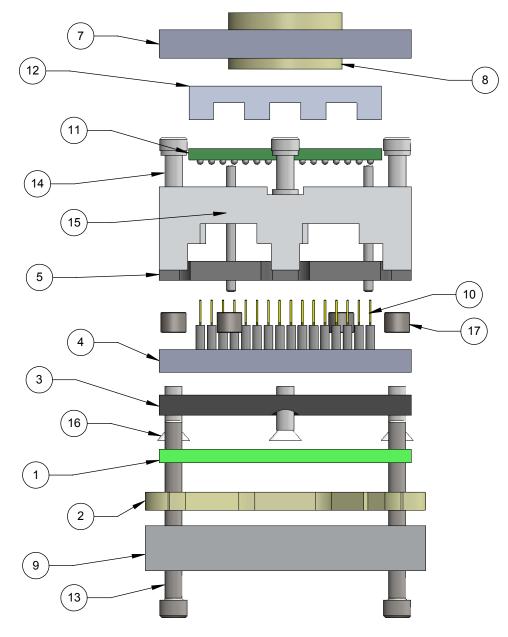


## **Insulating Plate Detail**

#### Description: SBT-BGA Socket 17x17mm, 1mm, 16x16 array

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

SB	ST-BGA-6023 Drawing	Material: Material <not specified=""></not>	STATUS: Released	SHEET: 4 OF 7	REV. A
Ironwood Electronics, Inc.	Finish:	DRAWN BY: D. Hauer	SCALE: 2:1		
	Tele: (800) 404-0204 Weight: 20.9	Weight: 20.97	FILE: SBT-BGA-6023 Dwg	DATE: 09/08/2012	



ITEM NO.	Description	Description Material ,	
1	TARGET PCB	TARGET PCB High Temp FR4	
2	Insulation Plate for 17x17mm IC FR4 Standard		1
3	Bottom Pogo Guide BGA256 1mm pitch	PEEK Ceramic filled	1
4	Middle Pogo Guide BGA256 1mm pitch	PEEK Ceramic filled	1
5	Floating Guide BGA256 1mm pitch	PEEK Ceramic filled	1
6	Socket Base, SBT BGA, 17x17	7075-T6 Aluminum Alloy	1
7	SBT skt lid 17mm IC 7075-T6 Aluminum Alloy		1
8	Compression Screw M10 with 4.25mm dia hole	ompression Screw M10 with 4.25mm dia hole 7075-T6 (SN)	
9	Backing Plate 7075-T6 Aluminum Alloy		1
10	Pogo Pin, 1mm Pitch SBT BGA pin		256
11	TEST CHIP	High Temp FR4	1
12	SBT Ni plt compression plate 17mm IC	7075-T6 Aluminum Alloy	1
13	#0-80 X .625 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	C HD CAP SCREW, ALLOY Alloy Steel	
14	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)	
15	Dowel Pin, 1/32" dia, 7/16" Long, 18-8 SS Chrome Stainless Steel		2
16	Screw, #0-80 X .188", Flat, SS  Stainless Steel (18-8)		4
17 Floating Guide Spring A		Alloy Steel (SS)	4

## Description: SBT-BGA Socket 17x17mm, 1mm, 16x16 array

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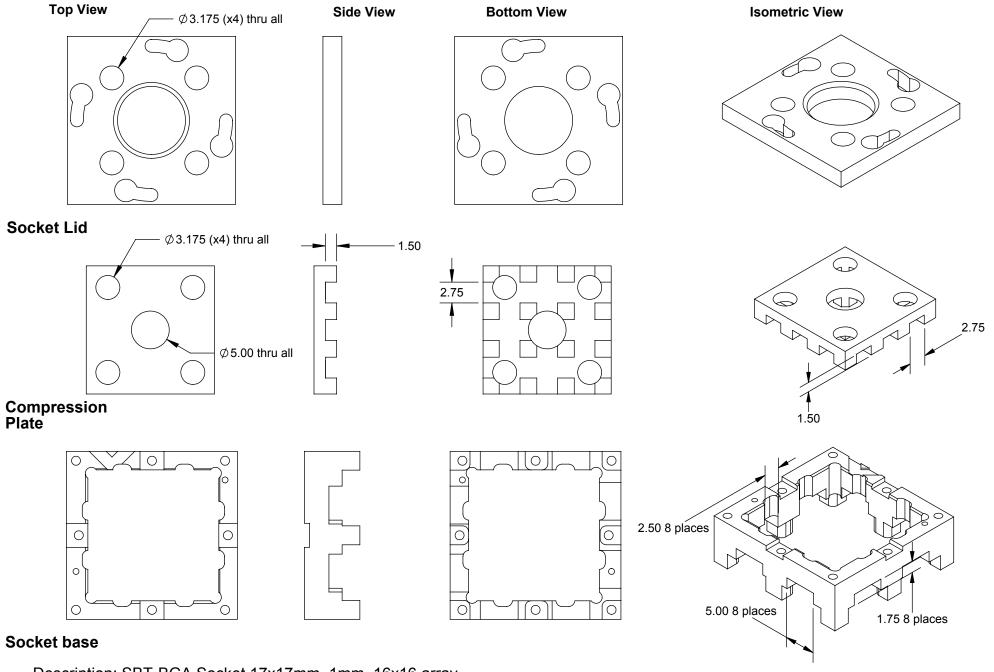
SBT-BGA-6023 Drawing			
•	Ironwood Electronics, Tele: (800) 404-020 www.ironwoodelectronic		

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

Material: Material <not specified>

Finish: Weight: 20.97

STATUS: Released	SHEET: 5 OF 7	REV. A
DRAWN BY: D. Hauer	SCALE: 2:1	
FILE: SBT-BGA-6023 Dwg	DATE: 09/08/2012	



### Description: SBT-BGA Socket 17x17mm, 1mm, 16x16 array

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

	SBT-BGA-6023 Drawing Material: Material <not specified=""></not>	STATUS: Released	SHEET: 6 OF 7	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish:	DRAWN BY: D. Hauer	SCALE: 1:1	
		Weight: 20.97	FILE: SBT-BGA-6023 Dwg	DATE: 09/08/2012

Rev	Date	Initials	Description
A	09/08/12	DH	Original

Description:

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

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.

Specification	Material:	STATUS: Released	SHEET: 7 OF 7	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		DRAWN BY: D. Hauer	SCALE: 1:1	
	Weight:	FILE: SBT-BGA-6023 Dwg	DATE: 09/08/2012	