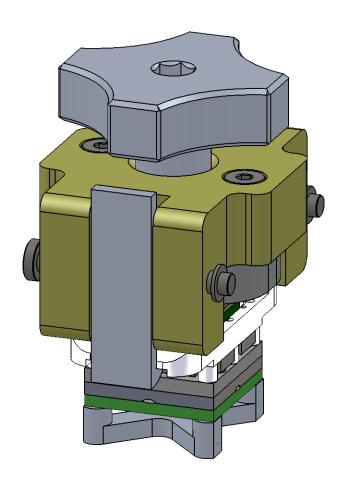
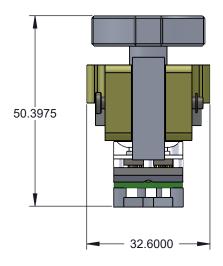
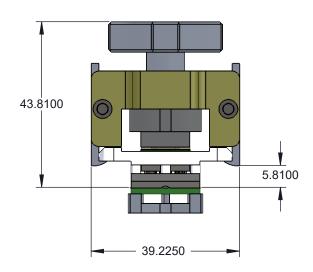
## CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



### **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: CBT Socket, 13mm x 13mm

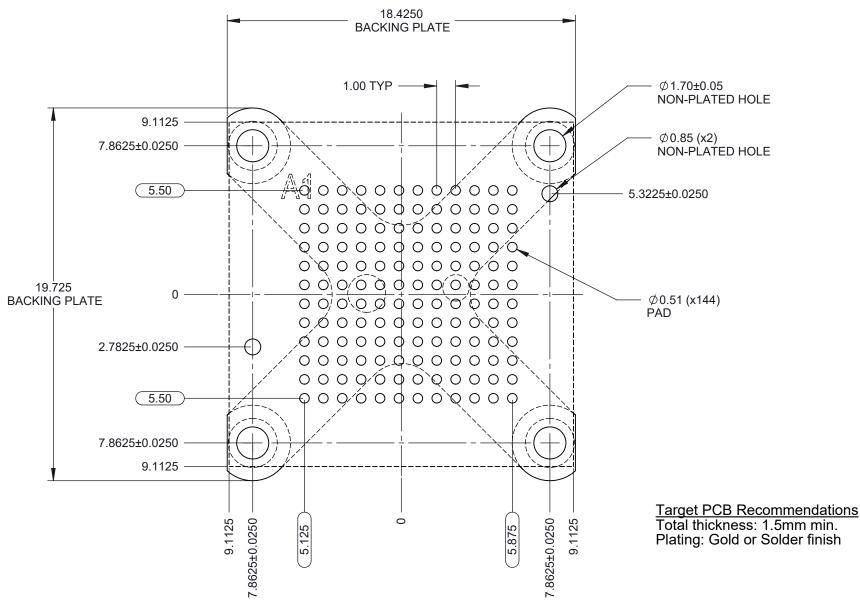
Primary dimension units are millimeters, Secondary dimension units are [inches].

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.

CBT-BGA-6014 Specification			
	Ironwood Electronics, Inc.		
	Tele: (800) 404-0204 www.ironwoodelectronics.com		

STATUS: Released	SHEET: 1 OF 4	REV. B
DRAWN BY: M. Raske	SCALE: 1:1	
FILE: CBT-BGA-6014 Dwg	DATE: 8/1/2012	

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



### **Description: Recommended PCB layout**

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

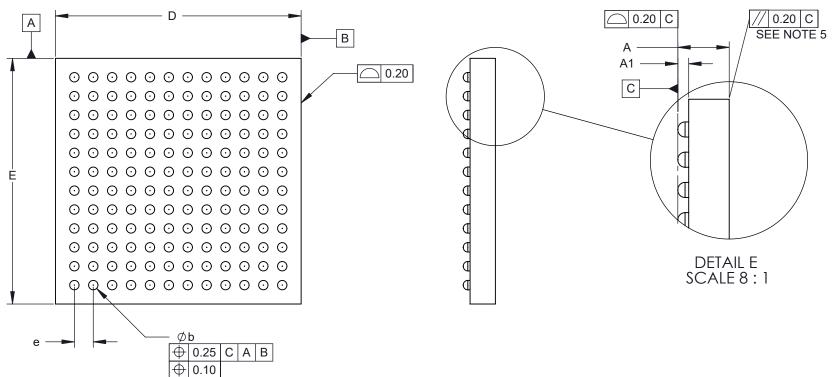
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

CBT-BGA-6014 Specification		
•	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	

Material:	: N/A
Finish: N	1/A
Weight:	74.29

STATUS: Released	SHEET: 2 OF 4	REV. B
DRAWN BY: M. Raske	SCALE: 5:1	
FILE: CBT-BGA-6014 Dwg	DATE: 8/1/2012	

### Ironwood Package Code: BGA144C2



- 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.
- 4. 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.

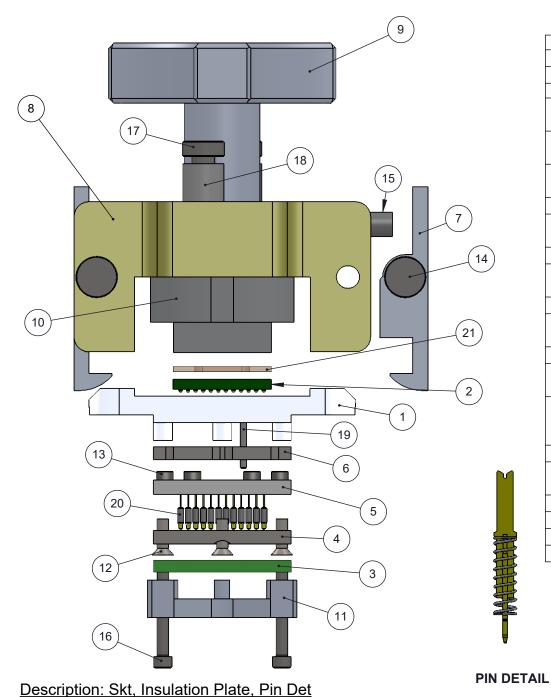
DIM	MIN	MAX
Α	2.9	3.5
A1	0.4	0.6
b	0.5	0.7
D	12.95	13.05
Е	12.95	13.05
е	1.0	

### **Description: 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 without notice.

CBT-BGA-6014 Specification	Material: N/A Finish: N/A Weight: 74.29	STATUS: Released	SHEET: 3 OF 4	REV. B
		DRAWN BY: M. Raske	SCALE: 5:1	
	Weight. 74.29	FILE: CBT-BGA-6014 Dwg	DATE: 8/1/2012	



ITEM NO.	DESCRIPTION	Material
1	CBT Socket Base 13mm	7075-T6 Aluminum Alloy
2	BGA chip 13mm 1mm	Material <not specified=""></not>
3	SBT-BGA-6034 PCB	FR4
4	CBT-BGA, bottom guide, 13mm IC, 12x12 array	PEEK Ceramic filled
5	CBT-BGA, middle guide, 13mm IC, 12x12 array	PEEK Ceramic filled
6	CBT-BGA, floating guide, 13mm IC, 12x12 array	PEEK Ceramic filled
7	Latch 10-17mm clamshell	7075-T6 Aluminum Alloy
8	Socket Lid clamshell double latch 17mm	7075-T6 Aluminum Alloy
9	M10 Comression Screw	7075-T6 Aluminum Alloy
10	CBT-BGA13mm dbl latch compression plate	7075-T6 (SN)
11	13x13mm Clamshell Backing Plate	7075-T6 Aluminum Alloy
12	Screw, #0-80 X .188", Flat, SS	Stainless Steel (18-8)
13	Floating Guide Spring	Alloy Steel (SS)
14	Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS	Stainless Steel (ferritic)
15	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
16	#0-80 x 0.5, SH Cap Screw	Alloy Steel
17	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
18	Spring Clamshell lid assembly	Steel Music Wire
19	Dowel Pin, 1/32" x 3/8", SS	Chrome Stainless Steel
20	Pogo Pin, 1mm Pitch SBT BGA pin	
21	IC Frame	Ultem 1000

Rev	Date	Initials	Description
Α	-	-	Original
В	12/15/14	MT/MR	Updated latch. Updated compression screw. call for details.

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.

CBT-BGA-6014 Specific	ation

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

Material: N/A Finish: N/A Weight: 74.29

STATUS: Released	SHEET: 4 OF 4	REV. B
DRAWN BY: M. Raske	SCALE: 2:1	
FILE: CBT-BGA-6014 Dwg	DATE: 8/1/2012	