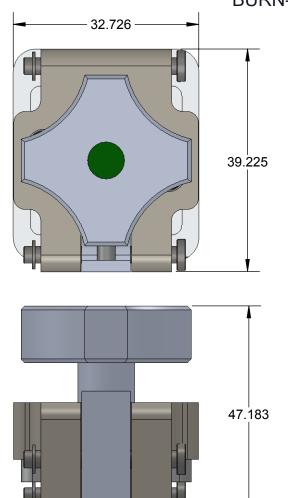
CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



Description: CBT-BGA 17x17mm, 0.8mm 14 x 14 array - 7 Watts

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

OF PERSON IN THE INC.

<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.

CBT-BGA-6003 Drawing

6.683



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

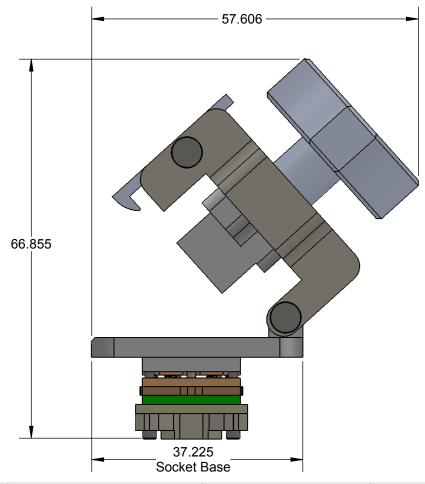
Material: N/A Finish: N/A Weight: 74.46

6.112

FEATURES:

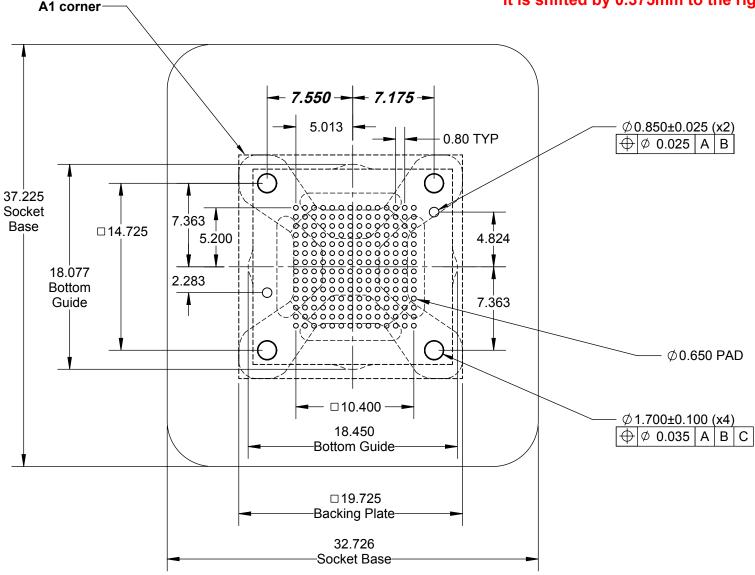
Wide temperature range (-55C to +180C) High current capability (up to 4A)

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



STATUS: Released	SHEET: 1 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 3:2
FILE: CBT-BGA-6003 Dwg	DATE: 10/12/2012	

*Note: BGA pattern is not symmetrical with respect to the mounting holes. It is shifted by 0.375mm to the right of center.



Description: Recommended PCB Layout

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.

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

PCB Pad height: same or higher than solder mask

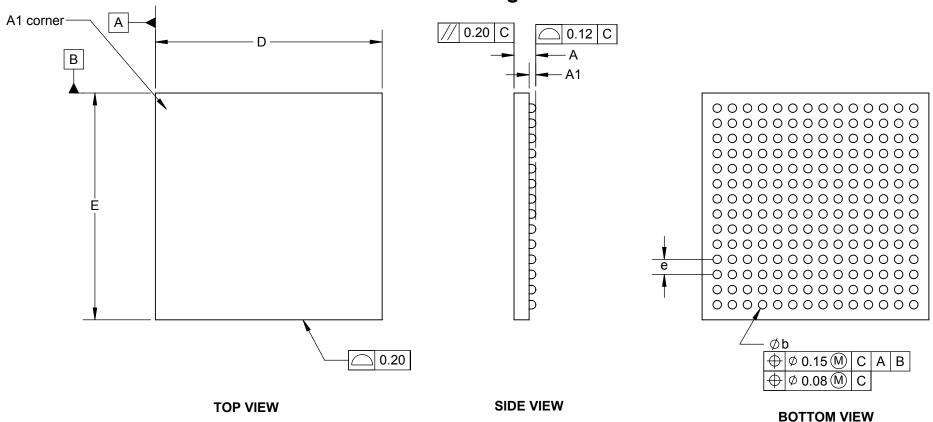
CBT-BGA-6003 Drawing



Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 74.46

STATUS: Released	SHEET: 2 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 3:1
FILE: CBT-BGA-6003 Dwg	DATE: 10/12/2012	

Ironwood Package Code: BGAxxx



- 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 C.
- 4. Datum C (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.

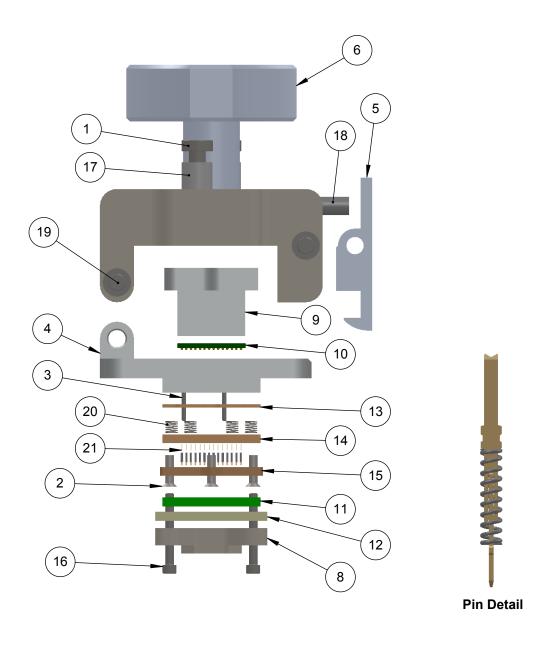
Description: Compatible BGA

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

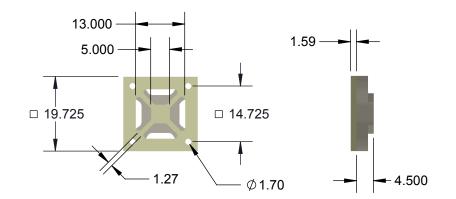
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

DIM	Minimum	Nominal	Maximum
Α			1.5
A1	0.3		
b			0.50
D	12.00 BSC		
Е	12.00 BSC		
е	0.80 BSC		
ARRAY	14 x 14		
PIN COUN	T 144		

СВ	CBT-BGA-6003 Drawing Material: N/A		STATUS: Released	SHEET: 3 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 74.46	ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 5:1	
			FILE: CBT-BGA-6003 Dwg	DATE: 10/12/2012	



ITEM		
NO.	DESCRIPTION	Material
1	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
2	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
3	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
4	Socket Base	7075-T6 Aluminum Alloy
5	Latch 10-17mm clamshell	7075-T6 Aluminum Alloy
6	M10 Comression Screw with hole	7075-T6 Aluminum Alloy
7	Clam Shell	7075-T6 Aluminum Alloy
8	Backing Plate	7075-T6 Aluminum Alloy
9	Compression Plate	7075-T6 Aluminum Alloy
10	BGA196 ,0.8mm Pitch	FR4
11	Target PCB BGA196	Custom Plastic
12	Insulation Plate	FR4 High temp
13	Floating Guide 12mm 0.8mm 14x14array	Semitron MDS 100
14	Middle Pogo Guide 12mm 0.8mm 14x14 arr	Semitron MDS 100
15	Bottom Guide 12mm 0.8mm 14x14 arr	Semitron MDS 100
16	#0-80 x 0.5, SH Cap Screw	Alloy Steel
17	Spring Clamshell lid assembly	Steel Music Wire
18	Precision Compression Spring, Zinc- Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
19	Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS	Stainless Steel (ferritic)
20	Floating Guide Spring	Alloy Steel (SS)
21	SBT Pin, SBT-BGA 0.5mm-0.8mm	



Description: Socket Assy, Insulation Plate

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-6003 Drawing



Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 74.46

Insulation and Backing Plate

STATUS: Released	SHEET: 4 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 3:2
FILE: CBT-BGA-6003 Dwg	DATE: 10/12/2012	

Re v	Date	Initials	Description
В	4/16/15	RP/MR	Changed spring pin and guides to new design, dowel pin protrusion adjusted, if needed, metal screws replaced with plastic screws, if needed. Contact Ironwood for details.

Description: Sheet1

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.

CBT-BGA-6003 Drawing		
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Material: Finish: Weight:

STATUS: Released	SHEET: 5 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: E. Smolentseva	SCALE: 3:2
FILE: CBT-BGA-6003 Dwg	DATE: 10/12/2012	