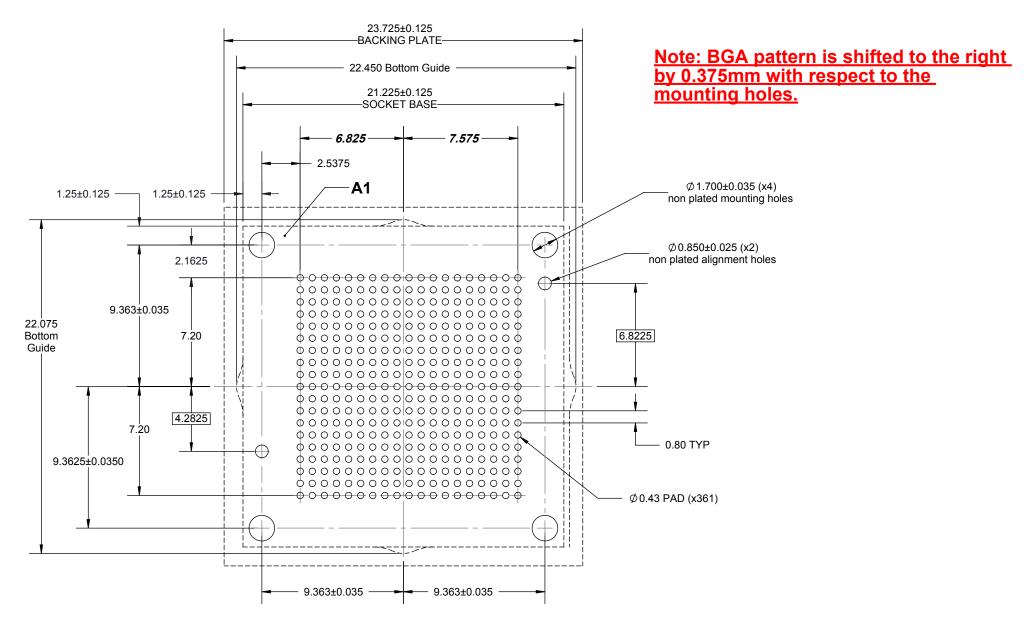


# Description: CBT Socket for 16mm X 16mm, 19x19 array, 0.8mm pitch BGA361

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-6020 Drawing		Material. Material viet opeomed	STATUS: Released	SHEET: 1 OF 5	REV. D
	Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: Weight: 79.64	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1:1
9	www.ironwoodelectronics.com		FILE: CBT-BGA-6020 Dwg	DATE: 08/02/2012	



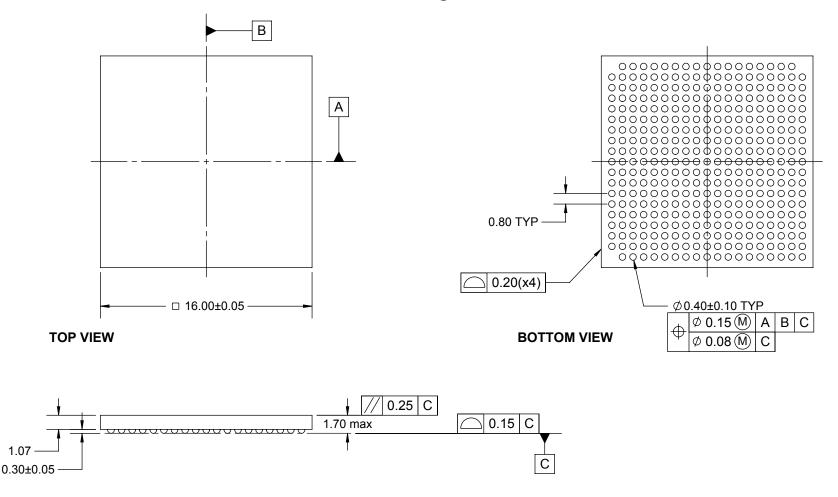
Target PCB Recommendations Total thickness: 1.6mm min. Plating: Gold or Solder finish PCB Pad height: same or higher than solder mask

#### Description: Recommended PCB Layout

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.

C	BT-BGA-6020 Drawing	Material: Material <not specified=""></not>	STATUS: Released	SHEET: 2 OF 5	REV. D
	Ironwood Electronics, Inc. Tele: (800) 404-0204	Weight: 79.64	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 4:1
	www.ironwoodelectronics.com		FILE: CBT-BGA-6020 Dwg	DATE: 08/02/2012	

## Ironwood Package code: BGA361E



1. Dimensions are in millimeters.

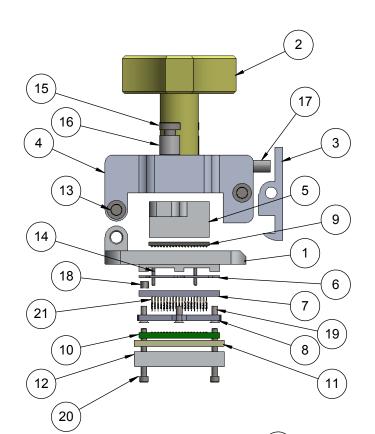
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C.
- 4. Datum C (seating plane) is defined by the spherical crowns of the solder balls.
- 5. Parallelism measurement shall exclude any effect of mark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

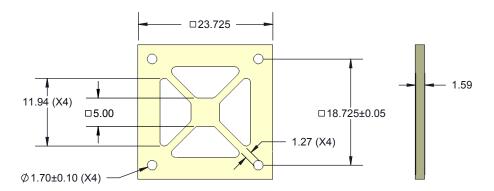
С	BT-BGA-6020 Drawing	material material mot opeomed	STATUS: Released	SHEET: 3 OF 5	REV. D
	Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: Weight: 79.64	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3.5:1
$\mathbf{r}$	www.ironwoodelectronics.com		FILE: CBT-BGA-6020 Dwg	DATE: 08/02/2012	



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**PIN DETAIL** 

ITEM NO.	DESCRIPTION Materia		
1	CBT Socket Base 16mm IC 0.375mm shift W/posts	7075-T6 Alumium Alloy	
2	COMPRESSION SCREW, 17MM X M10	7075-T6 Aluminum Alloy	
3	Clamshell Latch	7075-T6 Aluminum Alloy	
4	Clam shell lid for 17mm IC	7075-T6 Aluminum Alloy	
5	CBT Compression Plate 16mm IC w/ 6mm thru hole	7075-T6 Aluminum Alloy	
6	Floating Guide 19x19 array 0.8mm pitch	PEEK Ceramic filled	
7	Middle guide for 16x16mm, 19x19 0.8mm pitch BGA361	PEEK Ceramic filled	
8	Bottom guide for 16x16mm, 19x19 0.8mm pitch BGA361	PEEK Ceramic filled	
9	9 BGA361 16x16mm 19x19 0.8mm pitch Material <not sp<="" td=""></not>		
10 Customer's target PCB for 16x16mm, 19x19 0.8mm pitch BGA FR4 Sta		FR4 Standard	
11	Insulating plate for 19mm IC socket	FR4 Standard	
12	Backing Plate	7075-T6 Aluminum Alloy	
13	Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS	Stainless Steel (ferritic)	
14	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)	
15	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel	
16	Spring Clamshell lid assembly	Steel Music Wire	
17 Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire Zinc Plated		Zinc Plated Music Wire	
18	Floating Guide Spring Alloy Steel (SS		
19	#0-80, 90 deg., head pin guide screw, Peek material PEEK unfilled		
20	#0-80 x 0.5, SH Cap Screw	18-8 Stainless Steel	
21	SBT Pin, SBT-BGA 0.5mm-0.8mm		



#### **INSULATION PLATE**

### Description: Socket Assy exploded view

Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances</u>: Hole diameters  $\pm 0.03$ mm [ $\pm 0.001^{\circ}$ ], Pitches (from true position)  $\pm 0.025$ mm [ $\pm 0.001^{\circ}$ ], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.13$ mm [ $\pm 0.005^{\circ}$ ] unless stated otherwise. Materials and specifications are subject to change without notice.

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(	CBT-BGA-6020 Drawing Material:	indian material met op comoa	STATUS: Released	SHEET: 4 OF 5	REV. D
	Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: Weight: 79.64	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:2
	www.ironwoodelectronics.com		FILE: CBT-BGA-6020 Dwg	DATE: 08/02/2012	

Rev	Date	Initials	Description
A	02/10/12	ELS	Original
В	08/02/12	MR	Reoiented compression plate
С	02/18/14	DH	Chanaged current rating of pin
		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.	



Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances</u>; Hole diameters  $\pm 0.03$ mm [ $\pm 0.001$ "], Pitches (from true position)  $\pm 0.025$ mm [ $\pm 0.001$ "], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.13$ mm [ $\pm 0.005$ "] unless stated otherwise. Materials and specifications are subject to change without notice.



