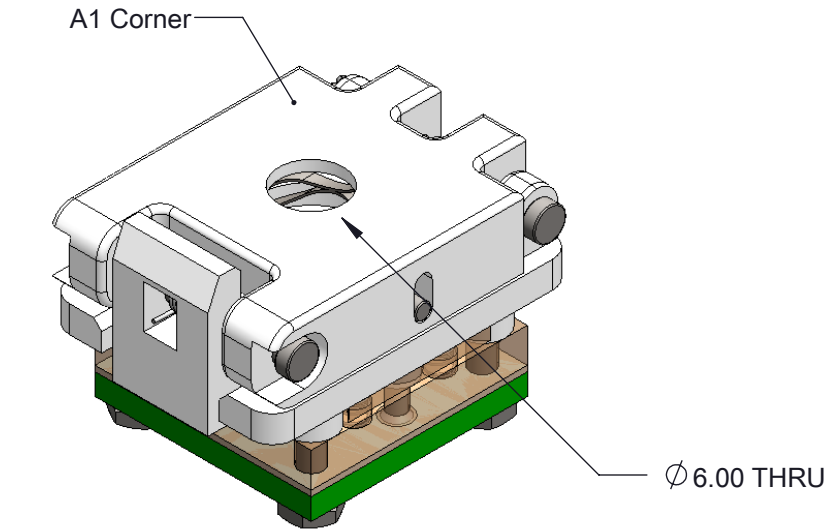
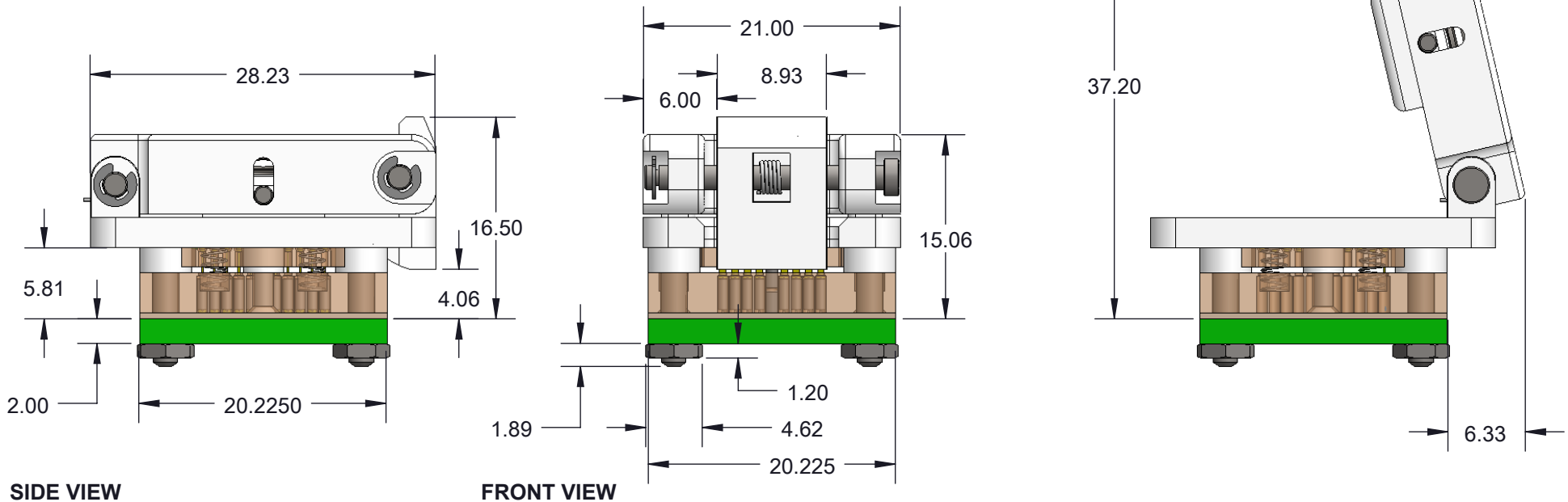


# CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



## 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

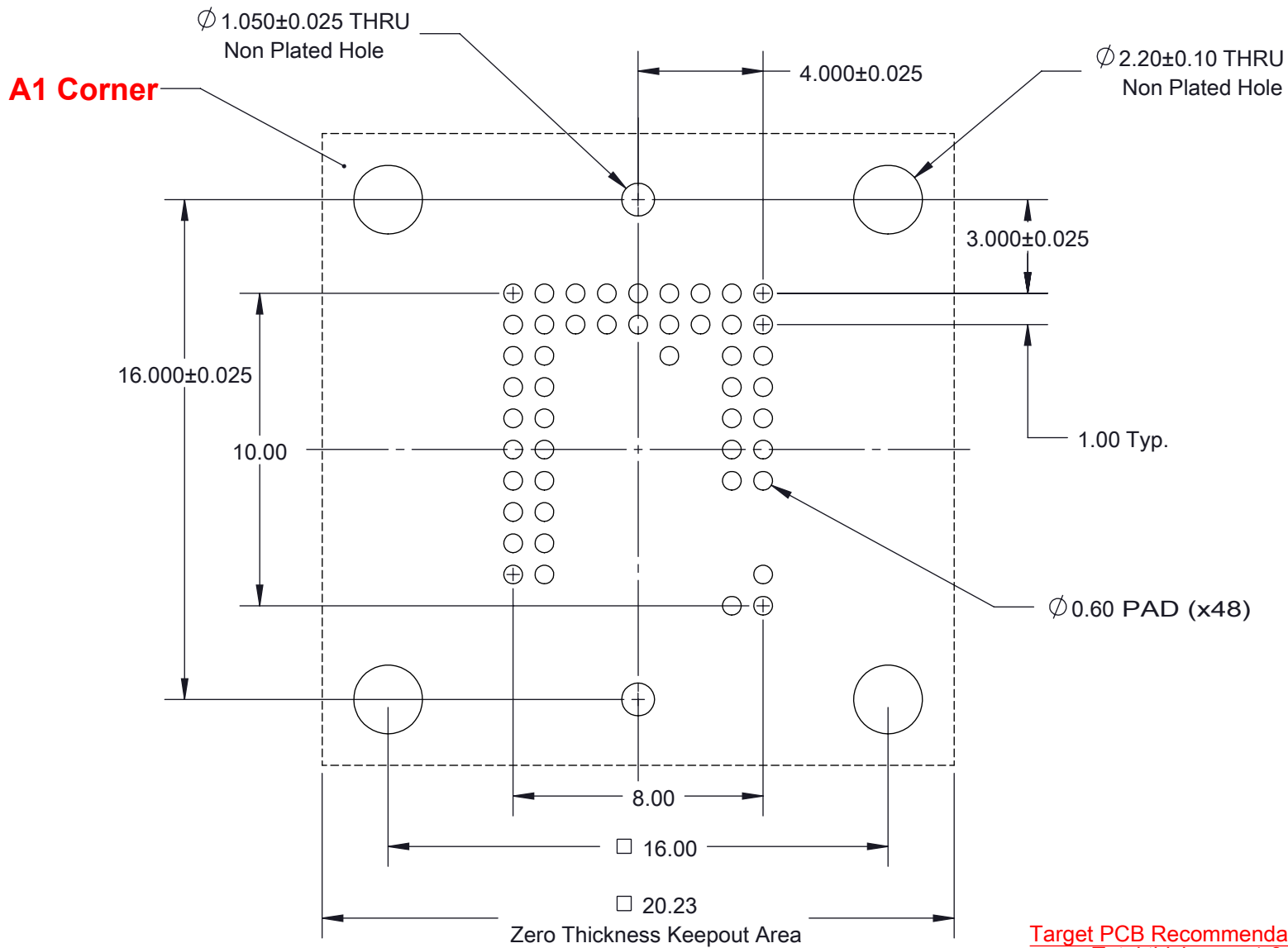


**Description:** Clamshell stamped spring pin socket; CBT-BGA 10x12mm 1mm pitch

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

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

 <p><b>CBT-BGA-6011 Specification</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: Material &lt;not specified&gt; Finish: Weight: 12.87</p>	STATUS: Released	SHEET: 1 OF 4	REV. A
		DRAWN BY: M. Raske	SCALE: 2:1	
		FILE: CBT-BGA-6011	DATE: 09/05/2012	




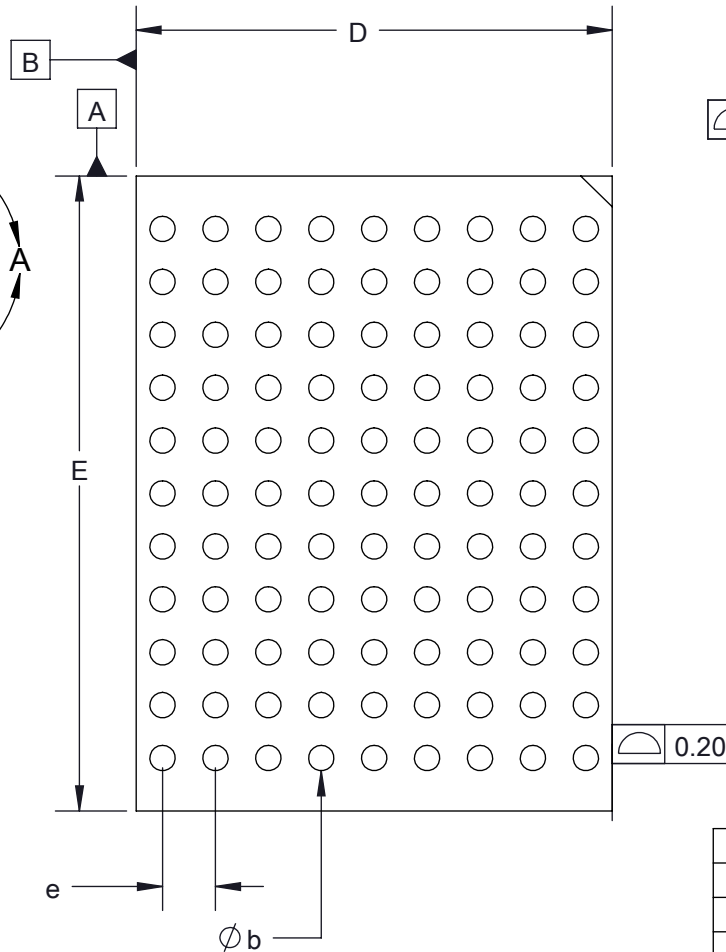
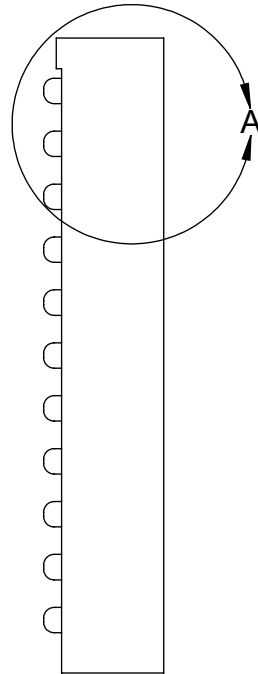
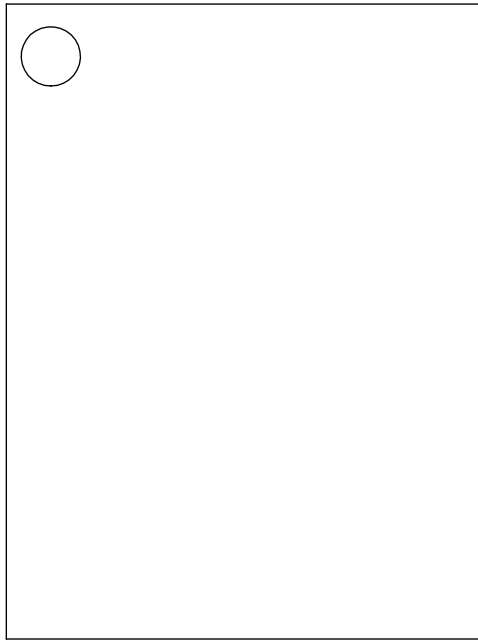
**Target PCB Recommendations**  
 Total thickness: 1.6mm min.  
 Plating: Gold or Solder finish  
 PCB Pad height: same or higher than solder mask

### Description: Recommended PCB Layout

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

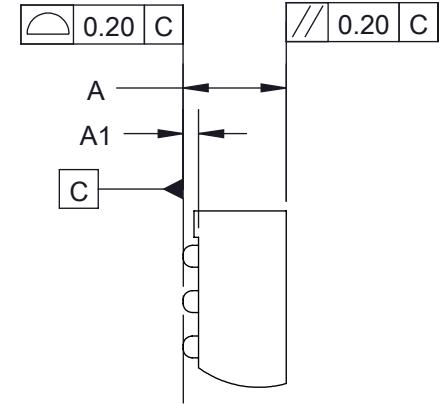
Tolerances: Hole diameters  $\pm 0.03\text{mm}$  [ $\pm 0.001''$ ], Pitches (from true position)  $\pm 0.025\text{mm}$  [ $\pm 0.001''$ ], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.13\text{mm}$  [ $\pm 0.005''$ ] unless stated otherwise. Materials and specifications are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

 <p><b>CBT-BGA-6011 Drawing</b>          Ironwood Electronics, Inc.          Tele: (800) 404-0204          www.ironwoodelectronics.com</p>	<p>Material: Material &lt;not specified&gt;          Finish:          Weight: 12.87</p>	STATUS: Released	SHEET: 2 OF 4	REV. A
		DRAWN BY: M. Raske	SCALE: 5:1	
		FILE: CBT-BGA-6011	DATE: 09/05/2012	



⊕	0.25	C	A	B
⊕	0.10			

SEE NOTE 3



DETAIL A  
SCALE 6 : 1


DIM	Minimum	Maximum
A		2.5
A1	0.29	0.39
b		0.53
D	9.00 BSC	
E	12.00 BSC	
e	1.0 BSC	
ARRAY	9 X 11	
PIN COUNT	99	

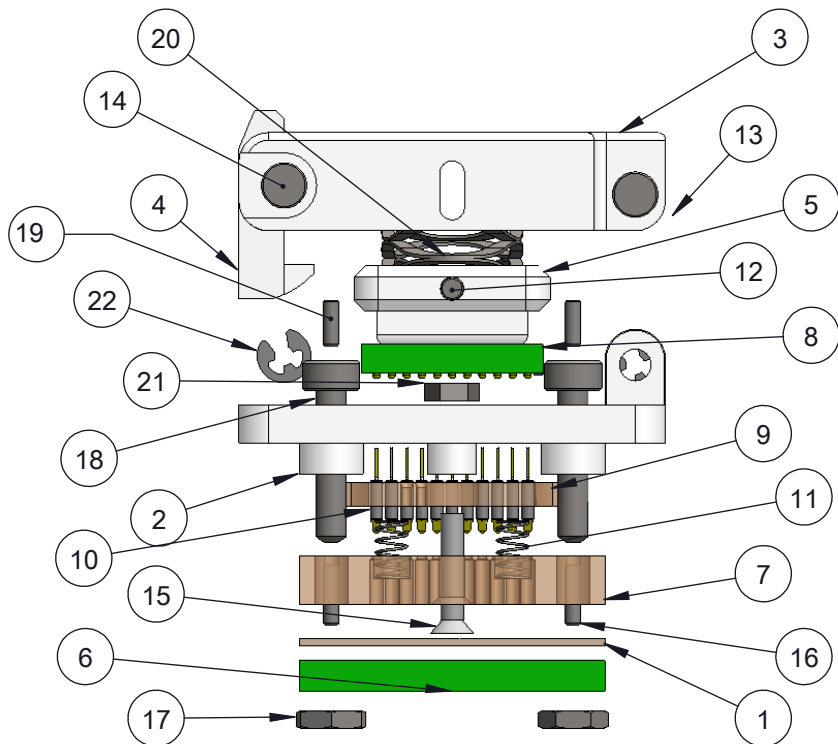
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C.
4. Datum C (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall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

### Description: Compatible BGA

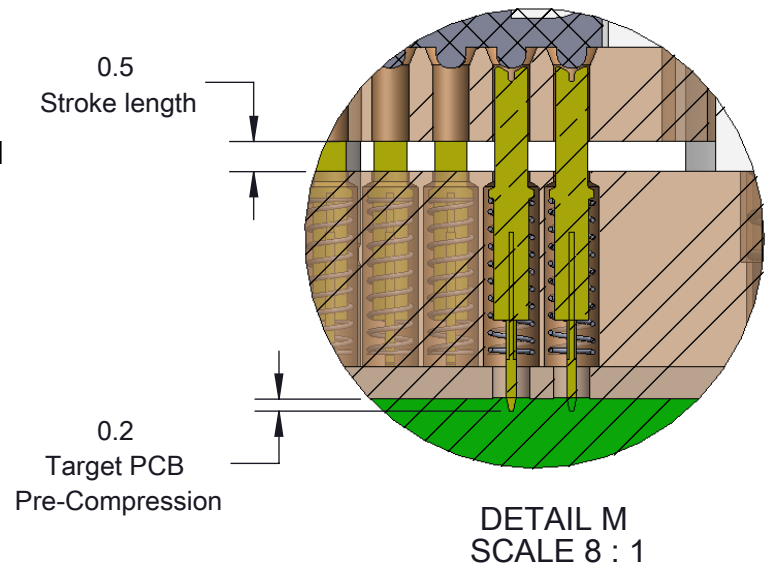
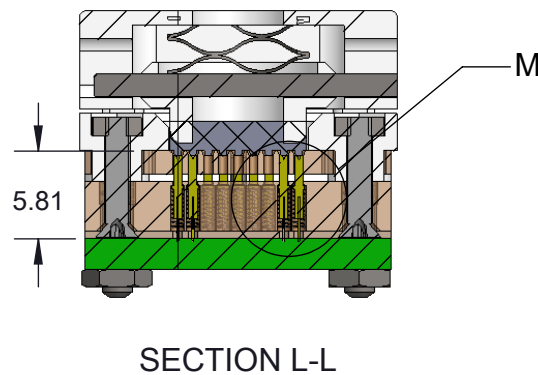
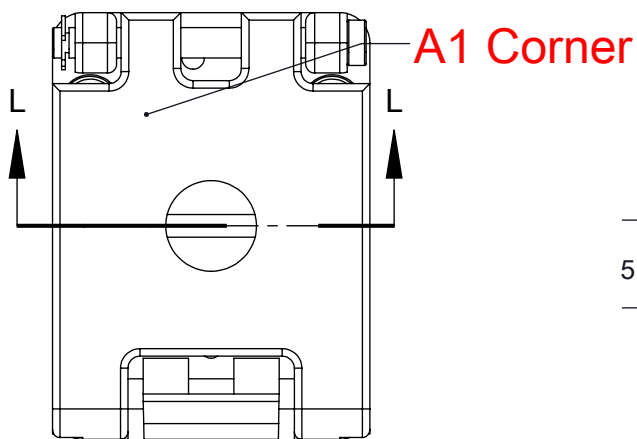
Primary dimension units are millimeters. Secondary dimension units are [inches]. Weight is in grams.

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

 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	<b>CBT-BGA-6011 Drawing</b> Material: Material <not specified> Finish: Weight: 12.87	STATUS: Released DRAWN BY: M. Raske FILE: CBT-BGA-6011	SHEET: 3 OF 4 SCALE: 7:1 DATE: 09/05/2012	REV. A
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ITEM NO.	Description	Material
1	Bottom Pogo Guide BGA48 9x12mm 1mm pitch	Ultem
2	Socket Base 12mm snap lid	PPS
3	12mm Plastic Snap Clamshell Socket Lid	PPS/Ultem
4	Clamshell Latch Snap Lid Socket	PPS/Ultem
5	Compression Plate Plastic Snap lid 10mm	PPS/Ultem
6	Target PCB BGA48 9x12mm 1mm pitch	Material <not specified>
7	Middle guide BGA48 9x12mm 1mm pitch	Ultem 1000
8	BGA 10x12mm 1mm pitch	FR4
9	Top Floating Guide BGA 9x12mm 1mm pitch	Ultem 1000
10	Pogo Pin, 1mm Pitch SBT BGA pin	
11	Floating Guide Spring	Alloy Steel (SS)
12	Dowel Pin, M1.5 X 20mm LG, 18-8 SS	AISI 347 Annealed Stainless Steel (SS)
13	Torsion Spring, 180 0.109" OD, SS	Stainless Steel (302)
14	2mm diameter Hinge Pin, 20 mm long	Alloy Steel
15	Screw, #0-80 X .313", Flat, SS	Material <not specified>
16	Dowel Pin, M1 x 4mm, STL	Alloy Steel
17	Nut, M2 x 1.2mm, SS	18-8 Stainless Steel
18	Screw, M2 x 10mm, Cap, SS STL	AISI 316 Stainless Steel Sheet (SS)
19	Dowel Pin, M1 x 3mm, STL	Alloy Steel
20	Wave Spring 0.375"OD 0.15" In 100lbs/in	Steel Music Wire
21	Nut, #0-80 x 3/64", SS	1023 Carbon Steel Sheet (SS)
22	Snap ring for 2mm Hinge pin 0.15" OD	



### Description: Socket Assy, Insulation Plate

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

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

 <b>CBT-BGA-6011 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 12.87	STATUS: Released	SHEET: 4 OF 4	REV. A
		DRAWN BY: M. Raske	SCALE: 2:1	
		FILE: CBT-BGA-6011	DATE: 09/05/2012	