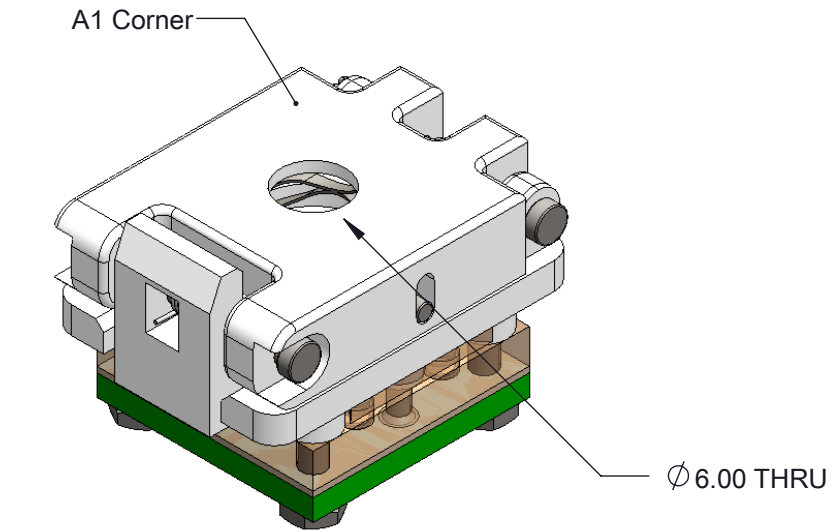
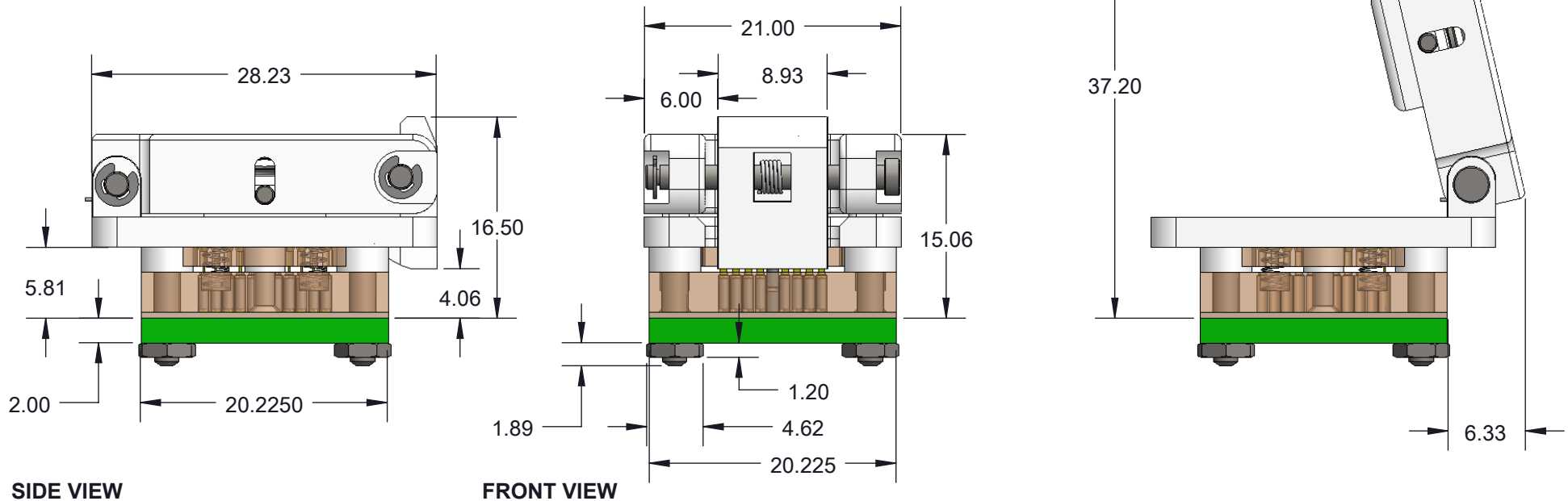


CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



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.

CBT-BGA-6011 Specification



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

Material: Material <not specified>
Finish:
Weight: 12.87

STATUS: Released

DRAWN BY: M. Raske

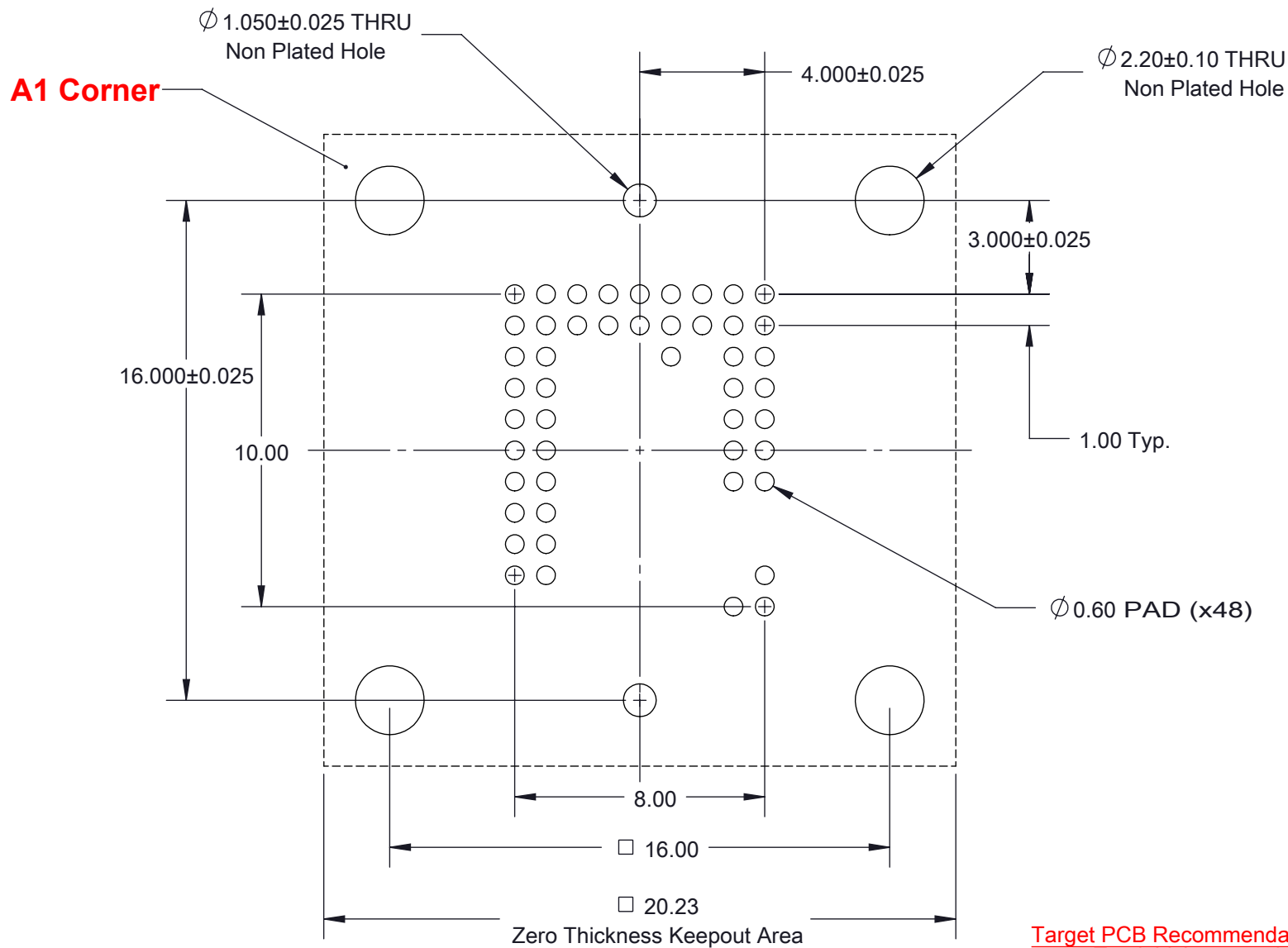
FILE: CBT-BGA-6011

SHEET: 1 OF 4

SCALE: 2:1

DATE: 09/05/2012

REV. A



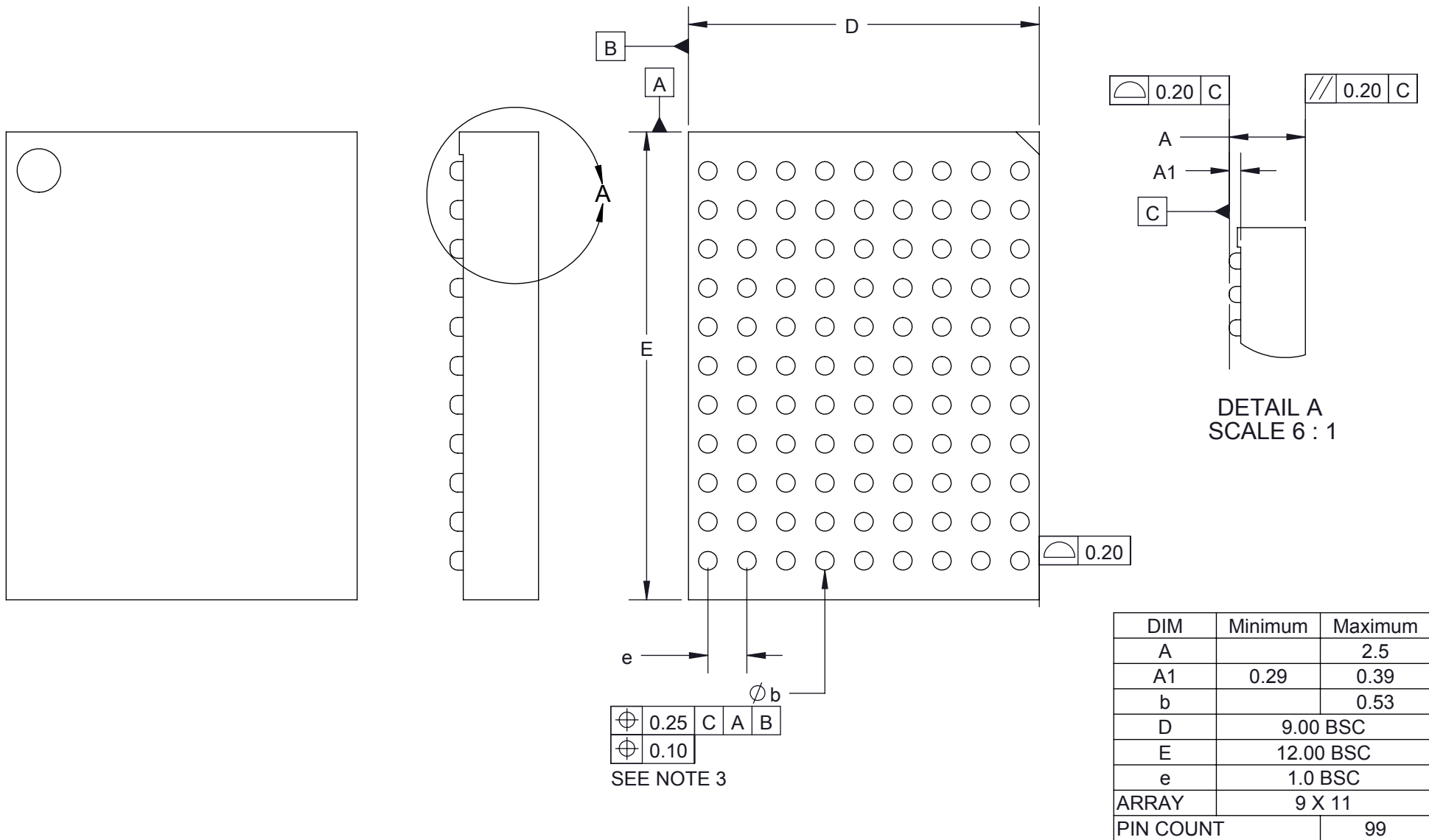
Target PCB Recommendations
 Total thickness: 1.6mm min.
 Plating: Gold or Solder finish
 PCB Pad height: same or higher than solder mask

Description: Recommended PCB Layout

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

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



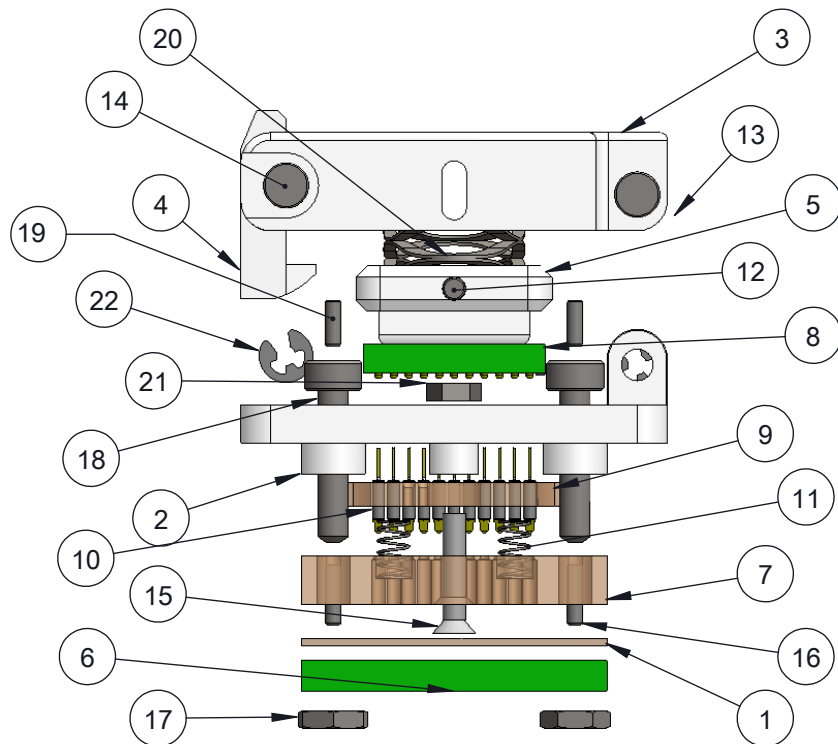
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C.
4. Datum C (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall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

Description: Compatible BGA

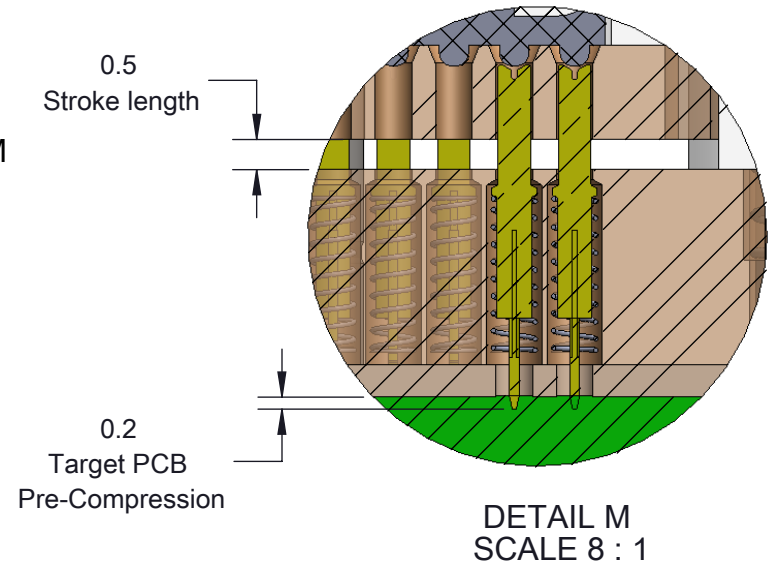
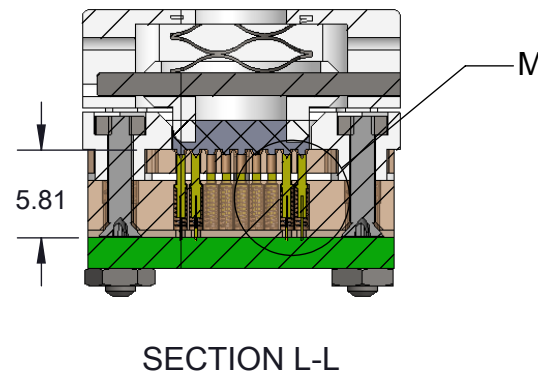
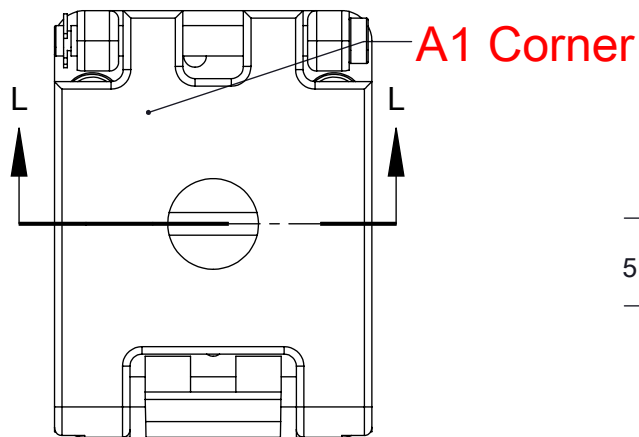
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

 CBT-BGA-6011 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: Weight: 12.87	STATUS: Released	SHEET: 3 OF 4	REV. A
		DRAWN BY: M. Raske	SCALE: 7:1	
		FILE: CBT-BGA-6011	DATE: 09/05/2012	



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.

 CBT-BGA-6011 Drawing 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	