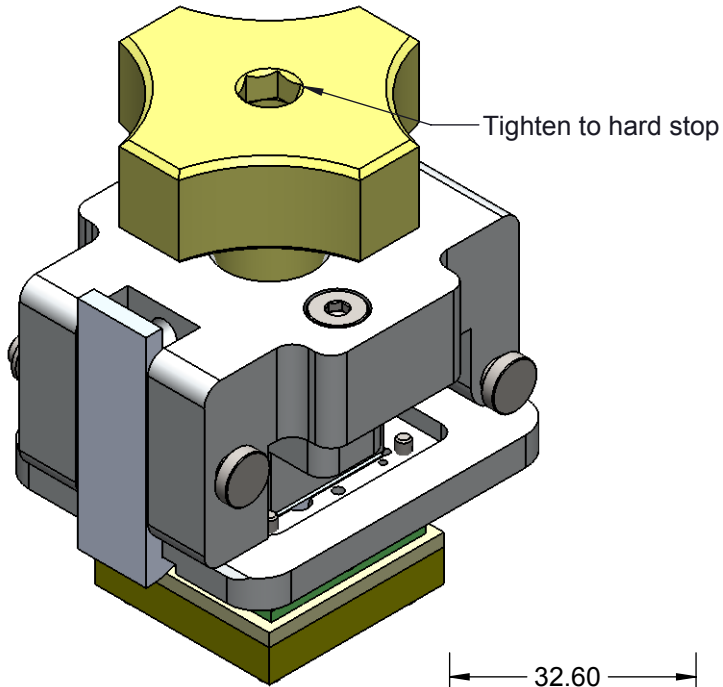
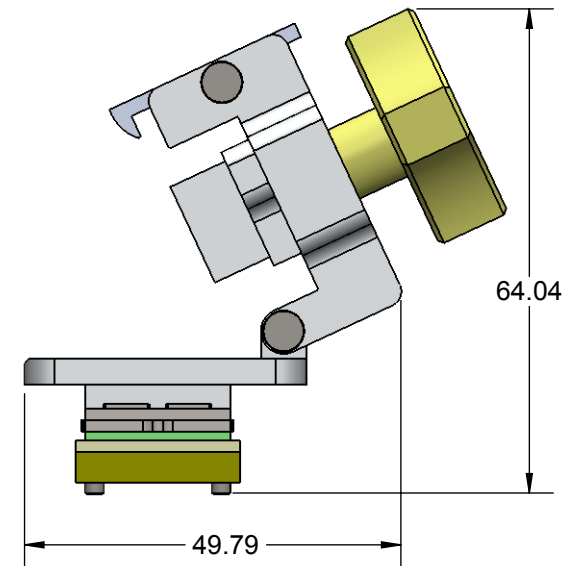
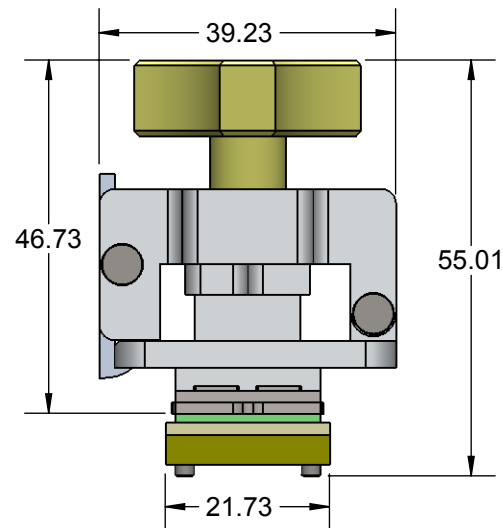
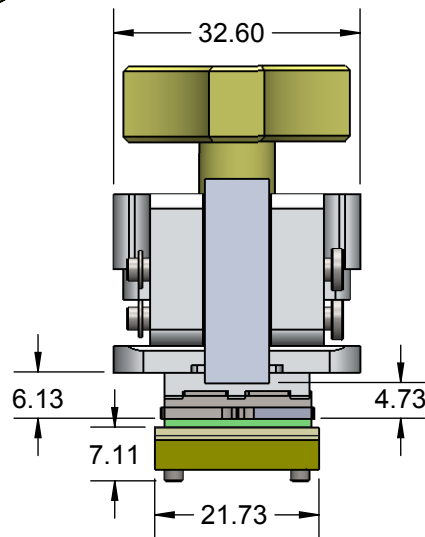


CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



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

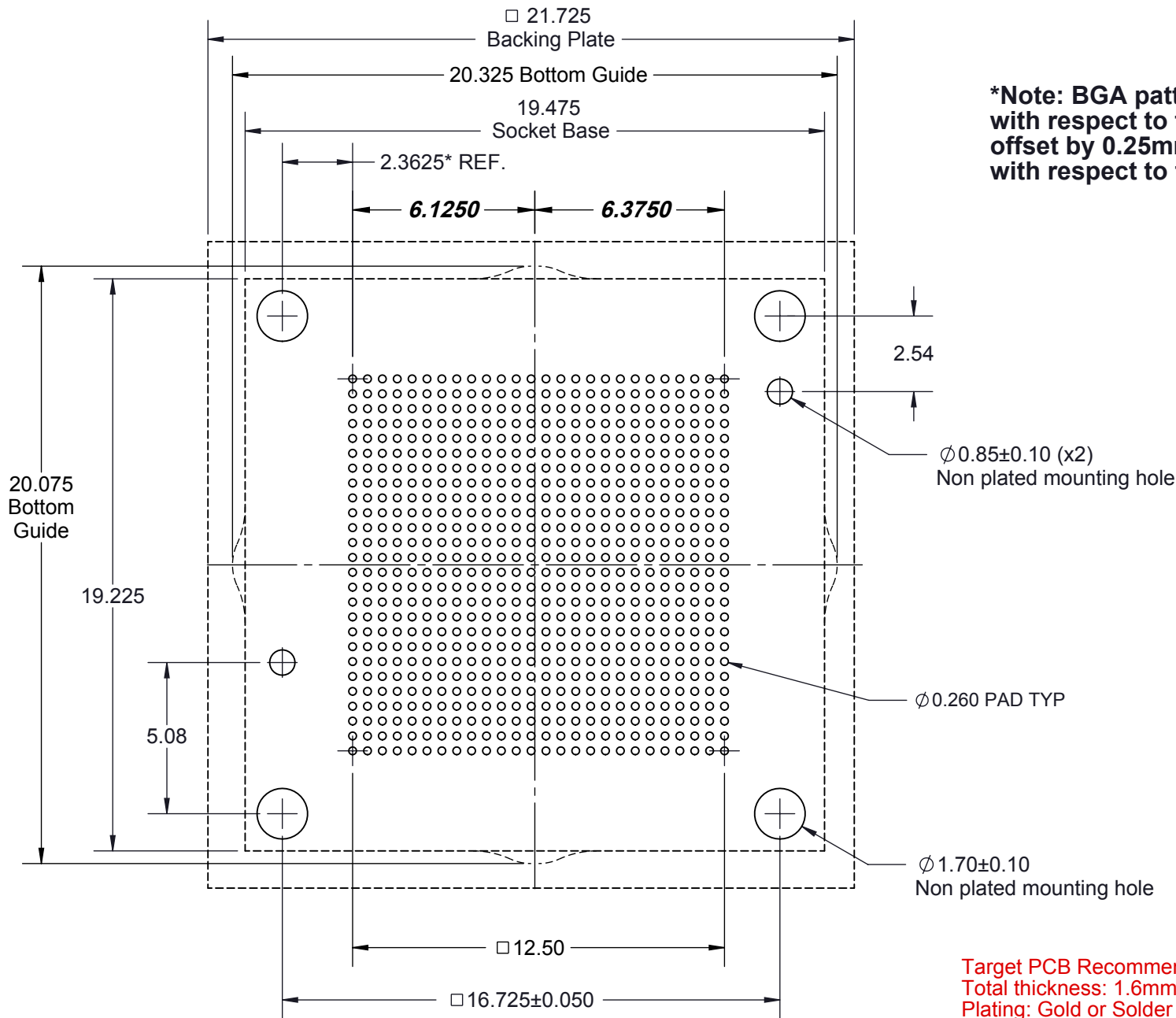


Description: Socket

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>©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>CBT-BGA-7009 Drawing</p>	<p>Material: Material <not specified> Finish: n/a Weight: 85.19</p>	<p>STATUS: Released</p>	<p>SHEET: 1 OF 5</p>	<p>REV. B</p>
			<p>ENG: M. A. Fedde</p>	<p>DRAWN BY: M. Raske</p>	<p>SCALE: 1:1</p>
			<p>FILE: CBT-BGA-7009</p>	<p>DATE: 8/22/2012</p>	




***Note: BGA pattern is not symmetrical with respect to the mounting holes. It is offset by 0.25mm to the right of center with respect to the mounting holes.**

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

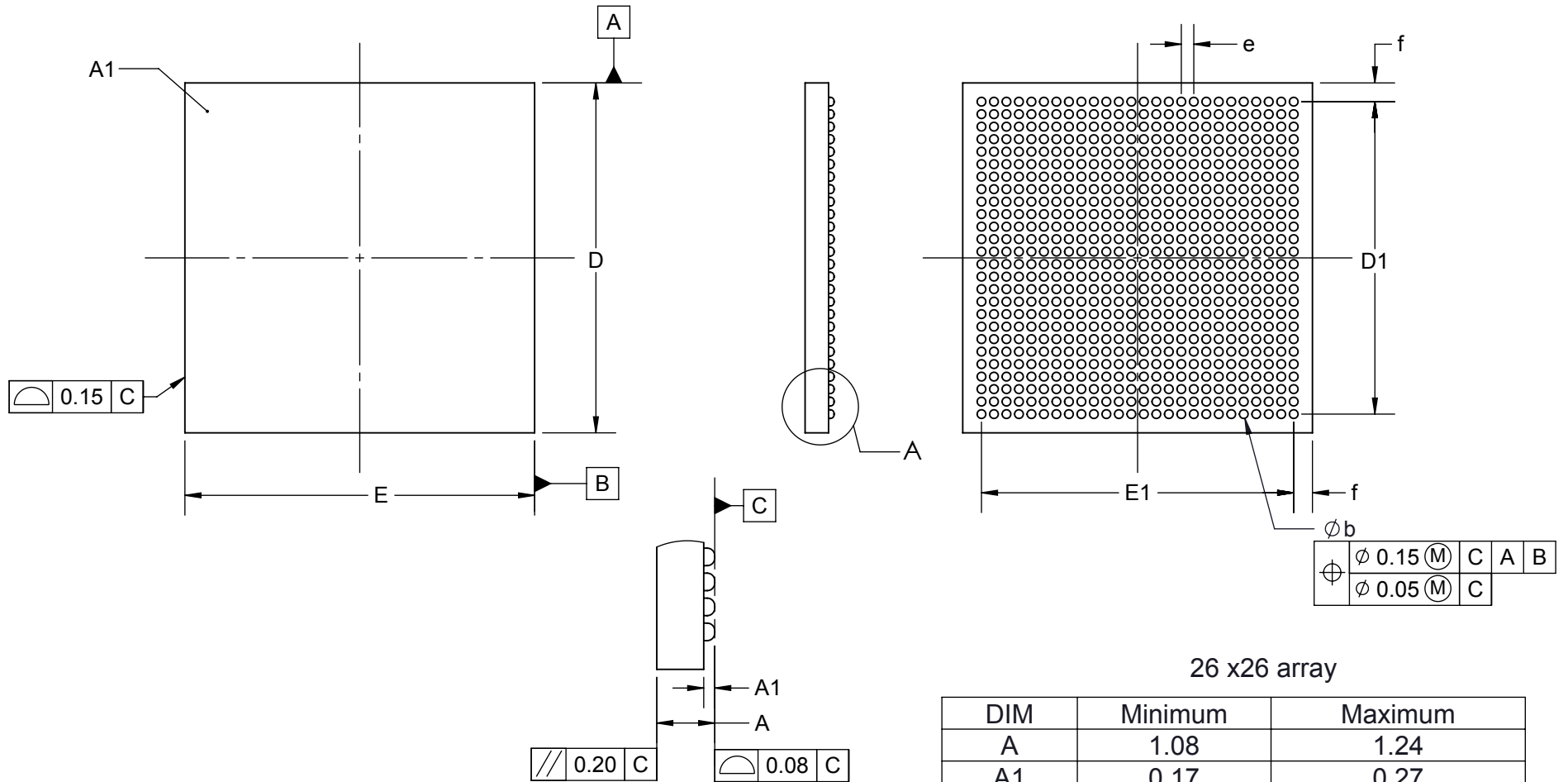
Description: Socket

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.

 <p>©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>CBT-BGA-7009 Drawing</p>	<p>Material: Material <not specified> Finish: n/a Weight: 85.19</p>	<p>STATUS: Released</p>	<p>SHEET: 2 OF 5</p>	<p>REV. B</p>
			<p>ENG: M. A. Fedde</p>	<p>DRAWN BY: M. Raske</p>	<p>SCALE: 5:1</p>
			<p>FILE: CBT-BGA-7009</p>	<p>DATE: 8/22/2012</p>	

Ironwood Package Code: BGA676E2



**DETAIL A
SCALE 8 : 1**

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.


26 x26 array

DIM	Minimum	Maximum
A	1.08	1.24
A1	0.17	0.27
b	0.26	0.36
D	14.00 BSC	
E	14.00 BSC	
D1	12.50 BSC	
E1	12.50 BSC	
e	0.50 BSC	
f	0.675	0.825

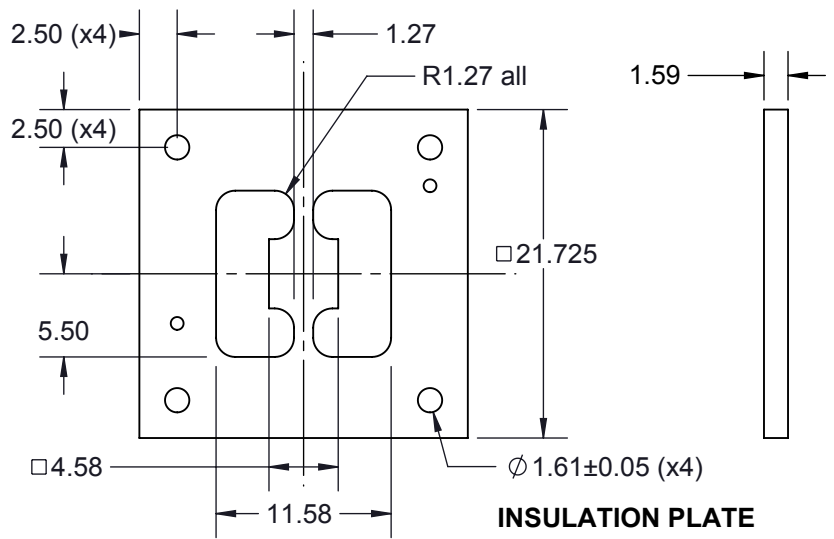
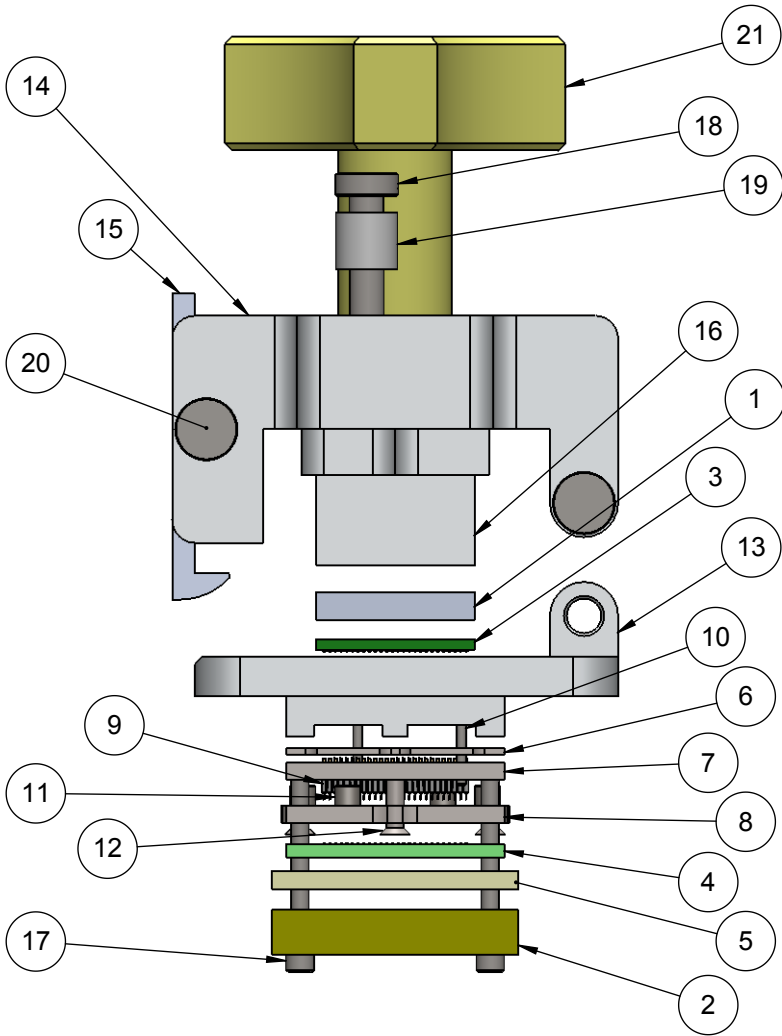
Description: Socket

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-7009 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: n/a Weight: 85.19	STATUS: Released	SHEET: 3 OF 5	REV. B
		ENG: M. A. Fedde	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: CBT-BGA-7009	DATE: 8/22/2012	

ITEM NO.	DESCRIPTION	Material
1	Compression Plate, 13.95 X 13.95	7075-T6 Aluminum Alloy
2	SBT/CBT Ni plf Backing Plate, 14mm	7075-T6 Aluminum Alloy
3	BGA676 0.5mm pitch 27x27 array 14x14mm	FR4
4	Target PCB BGA676 0.5mm pitch 26x26 array	FR4
5	Insulation Plate	FR4 Standard
6	Floating Guide	PEEK Ceramic filled
7	Middle Pogo Guide	PEEK Ceramic filled
8	Bottom Pogo pin Guide	PEEK Ceramic filled
9	SBT Pin, SBT-BGA 0.5mm-0.8mm	
10	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
11	Floating Guide Spring	Alloy Steel (SS)
12	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
13	Socket Base	7075-T6 Aluminum Alloy
14	Clam Shell	7075-T6 Aluminum Alloy
15	Latch 10-17mm clamshell	7075-T6 Aluminum Alloy
16	Compression Plate	7075-T6 Aluminum Alloy
17	#0-80 X .625 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
18	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
19	Spring Clamshell lid assembly	Steel Music Wire
20	Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS	Stainless Steel (ferritic)
21	COMPRESSION SCREW, 17MM X M10	7075-T6 Aluminum Alloy



Description: Socket

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-7009 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Material <not specified> Finish: n/a Weight: 85.19	STATUS: Released	SHEET: 4 OF 5	REV. B
		ENG: M. A. Fedde	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: CBT-BGA-7009	DATE: 8/22/2012	

Rev	Date	Initials	Description
B	3/13/15	RP/MR	Changed spring pin and guides to new design, dowel pin protrusion adjusted if needed, metal screws replaced with plastic screws. Contact Ironwood for details.

Description: Revisions

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

Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.0762\text{mm}$ [$\pm 0.003"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change without notice.

 CBT-BGA-7009 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. B
		ENG: M. A. Fedde	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: CBT-BGA-7009	DATE: 8/22/2012	