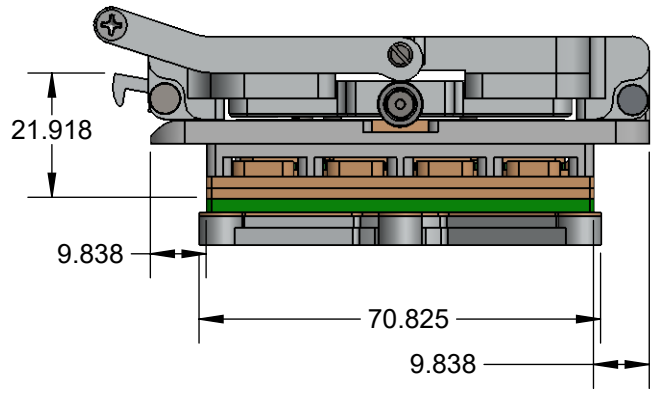
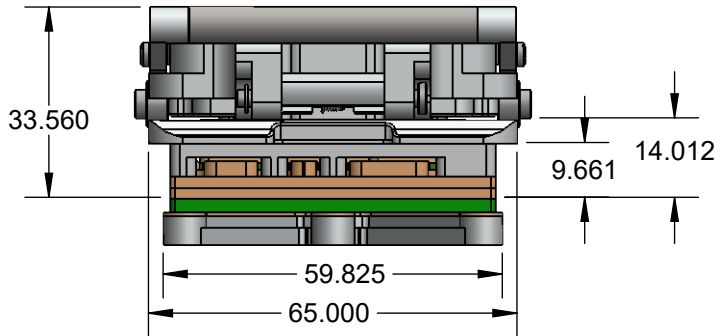
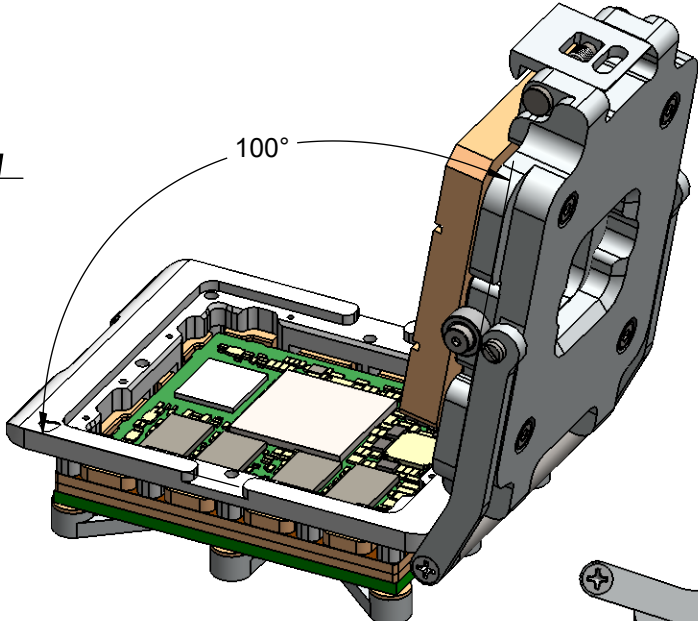
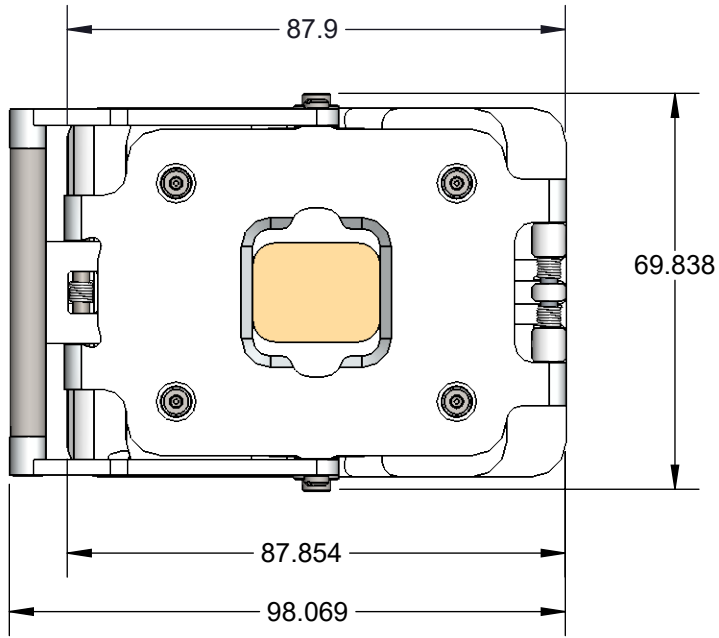


LGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

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

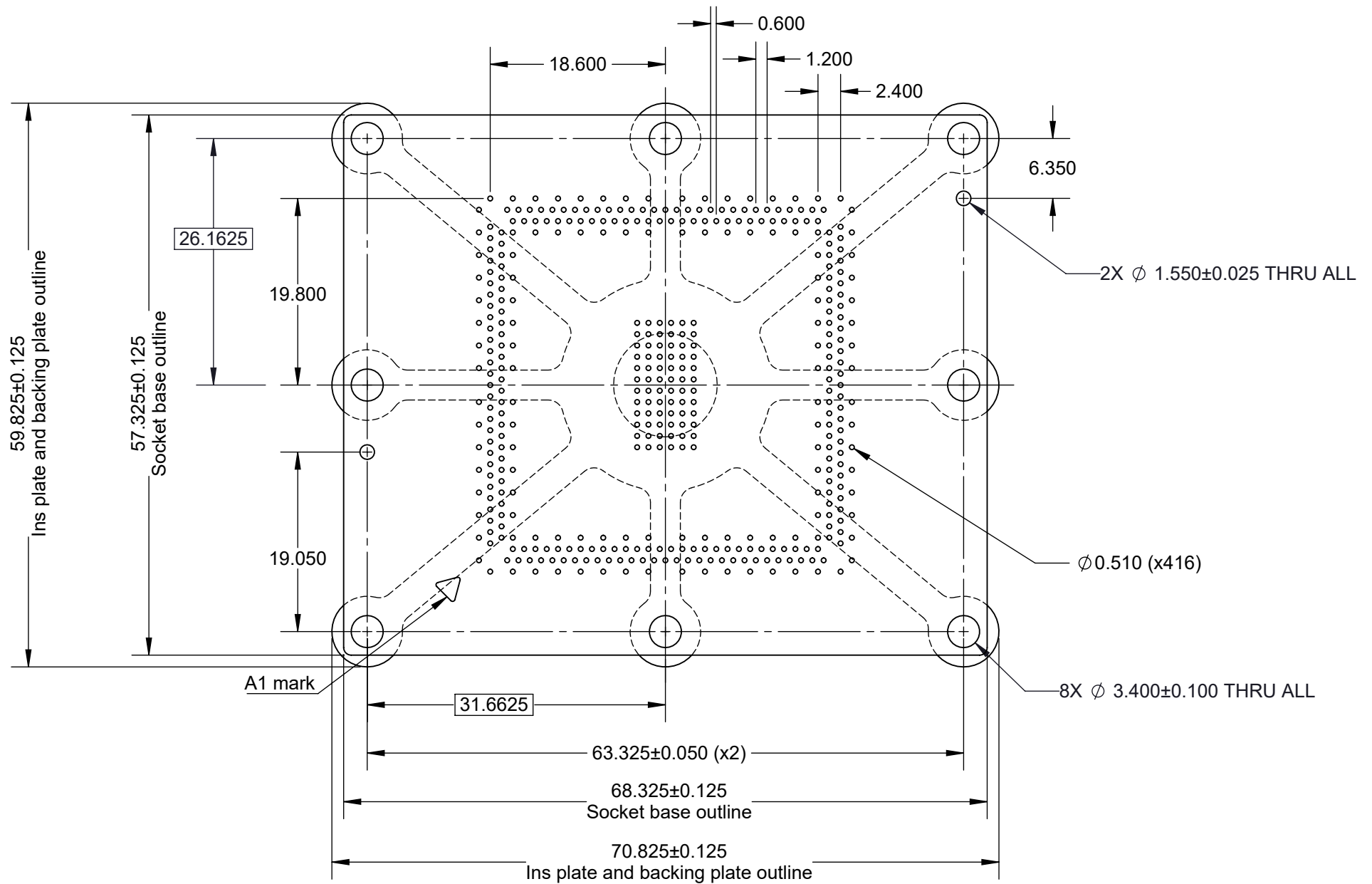


Description: Lever Socket for LGA416 58x47mmmm 1.2mm pitch

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-LGA-5012 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 299.09	STATUS: Released ENG: S. Huang FILE: CBT-LGA-5012 Dwg	SHEET: 1 OF 4 DRAWN BY: M. Raske DATE: 06/02/2016	REV. A SCALE: 3:4




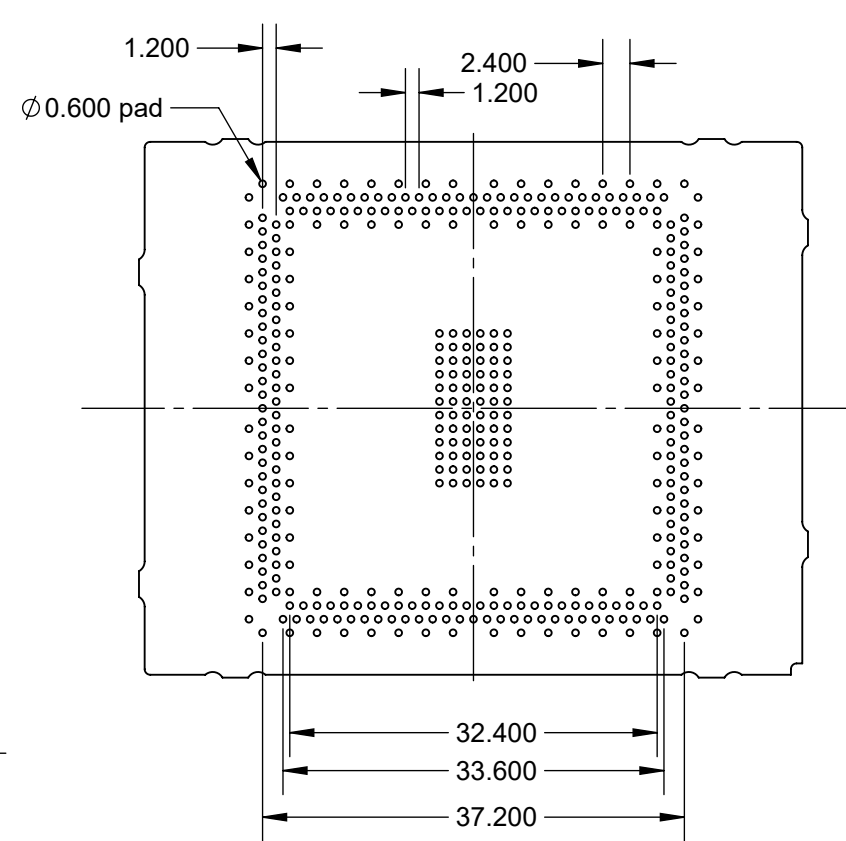
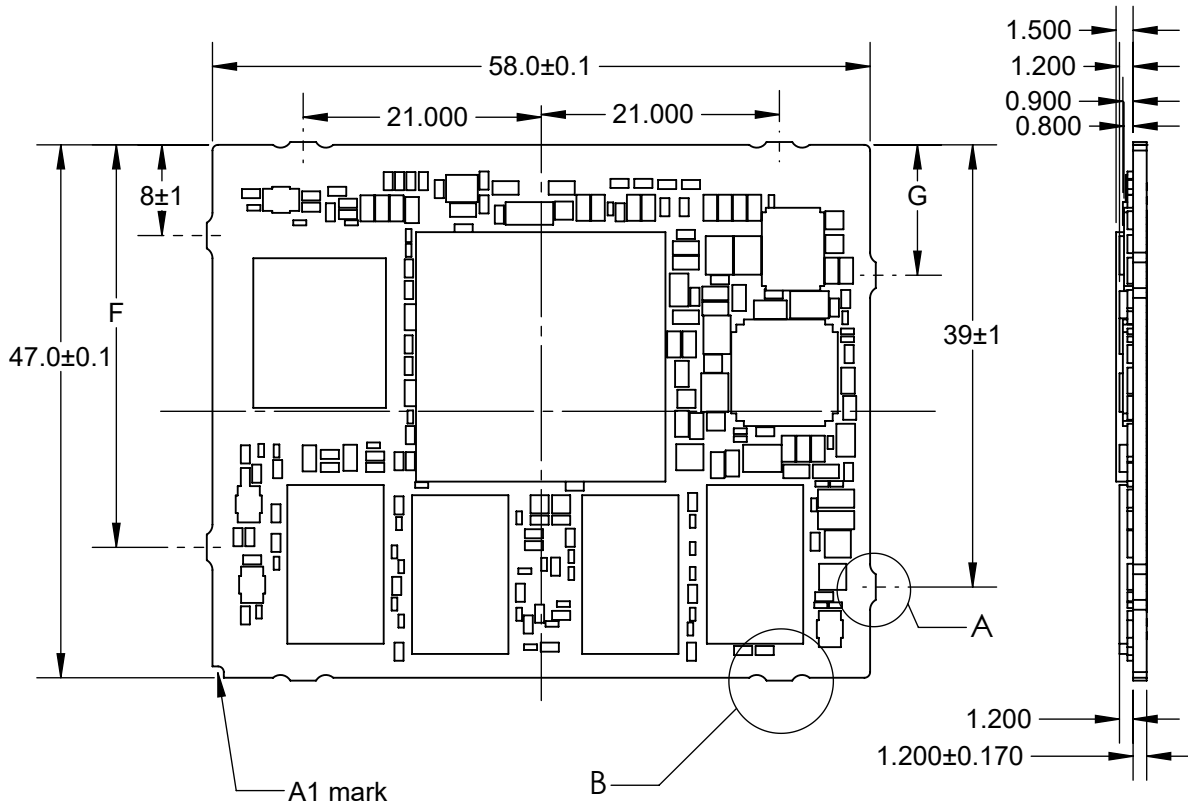
Target PCB Recommendations
 Total thickness: 2mm min.
 Plating: Gold or Solder finish
 PCB Pad height: Same or higher than solder mask

Description: Recommended PCB Layout

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

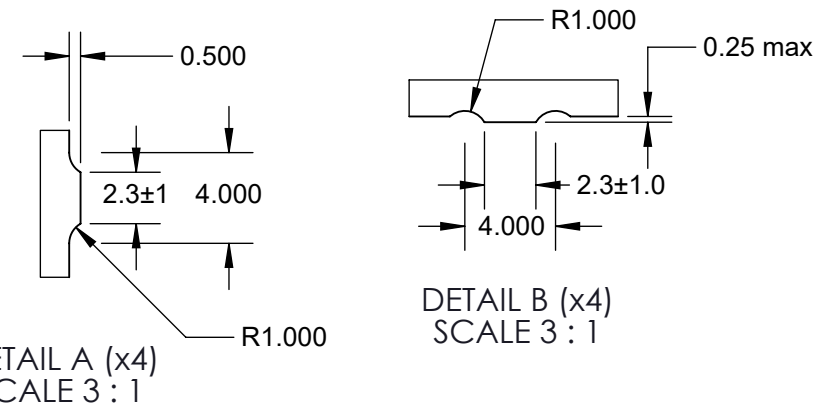
Tolerances: Hole diameters $\pm 0.0254\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.0762\text{mm}$ [$\pm 0.003"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.127\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change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

 CBT-LGA-5012 Drawing ©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 299.09	STATUS: Released ENG: S. Huang FILE: CBT-LGA-5012 Dwg	SHEET: 2 OF 4 DRAWN BY: M. Raske DATE: 06/02/2016	REV. A SCALE: 1.75:1



	TYPE 1	TYPE 1	TYPE 1
F	39±1	35.5±1	35.5±1
G	11.5±1	11.5±1	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 Z.
4. Datum Z (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.

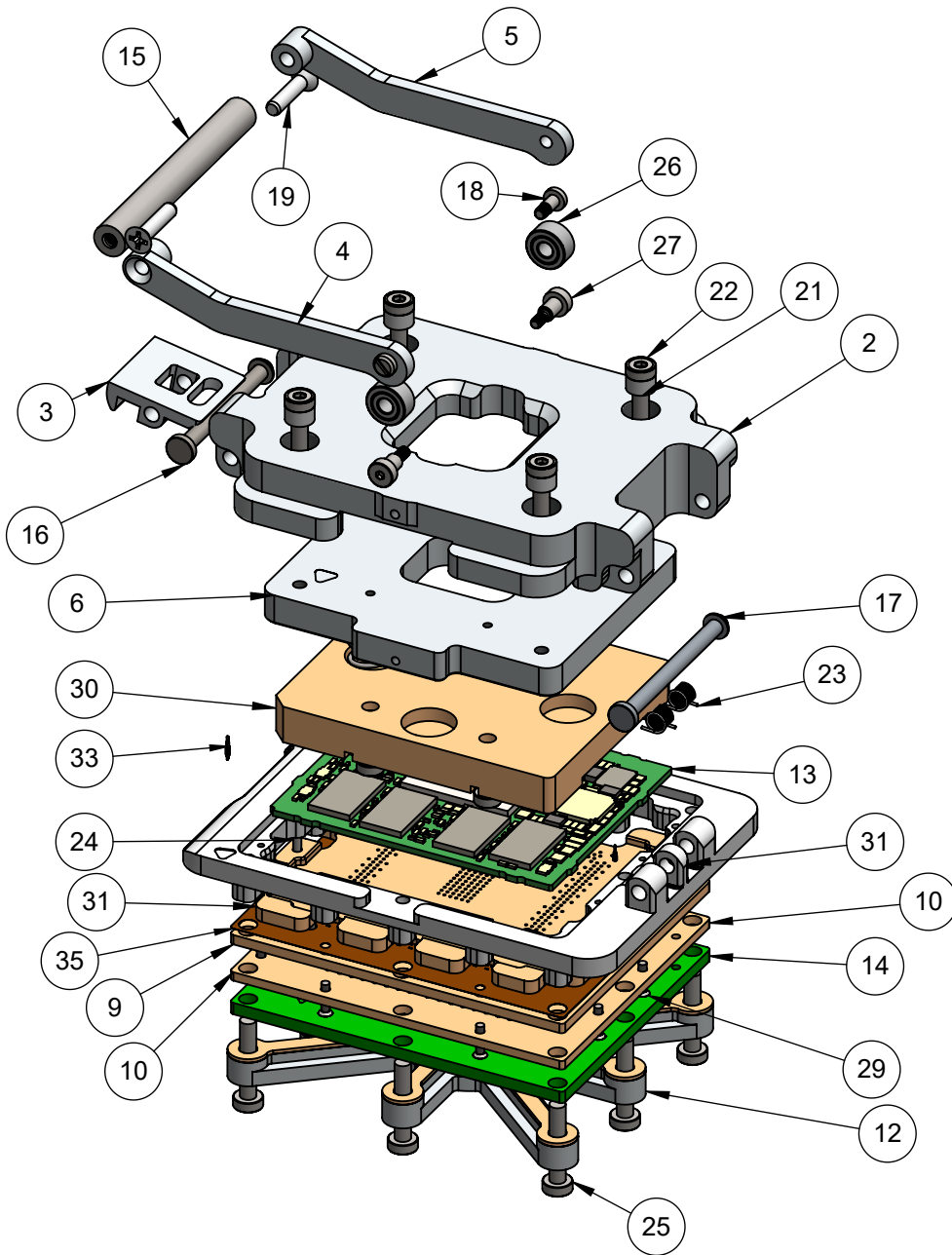


Description: Compatible BGA

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

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

CBT-LGA-5012 Drawing		Material: N/A	STATUS: Released	SHEET: 3 OF 4	REV. A
 ©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A	Weight: 299.09	ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 1.5:1
			FILE: CBT-LGA-5012 Dwg	DATE: 06/02/2016	




ITEM NO.	DESCRIPTION	Material
2	Socket Lid clamshell for lever lid	7075-T6 Aluminum Alloy
3	19mm IC clamshell latch	7075-T6 Aluminum Alloy
4	Custom right cam handle	7075-T6 Aluminum Alloy
5	Custom left cam handle	7075-T6 Aluminum Alloy
6	Cam Lid Compression Plate top for 58x47mm IC	7075-T6 Aluminum Alloy
9	Middle Guide, 58x47mm 1.2mmpitch BGA416	Semitron MDS 100
10	Bottom Guide, 58x47mm 1.2mm pitch BGA416	Semitron MDS 100
11	Custom Insulation Spacer	Ultem 1000
12	Custom backing plate	7075-T6 Aluminum Alloy
13	Test chip for 58x47mmmm 1.2mm pitch BGA416 module	High Temp FR4
14	Test PCB for 58x47mmmm 1.2mm pitch BGA416	FR4
15	Female Threaded round Standoff, 4-40, 1/4" OD, 2" lg	Stainless Steel (18-8)
16	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	AISI 1045 Steel, cold drawn
17	Hinge Pin and Snap ring, 3mm OD, 35mm long 304 Stainless Steel	Stainless Steel (304)
18	Shoulder Screw; 3/32" Shoulder dia., 1/8" long, 2-56 Thread	Stainless Steel (18-8)
19	screw 4-40 x 0.5" flat head phillips 18-8 ss	
20	18 SS Shoulder Screw, 3 mm Dia. x 3mm Long Shoulder, M2 Thread	18-8 Stainless Steel
21	Spring Clamshell lid assembly	Steel Music Wire
22	Screw, M3 x 10mm, Low Head Cap, SS	18-8 Stainless Steel
23	180° Torsion Spring for 3mm pin	Steel Music Wire
24	M1.5 x 10mm dowel pin	AISI 316 Annealed Stainless Steel Bar (SS)
25	Screw, M3 x 0.5mm, 16mm lg, Low Head Cap, SS	18-8 stainless steel
26	Bearing 3mm shaft, 8mm OD, 4mm Width	
27	Shoulder Screw 18-8 SS, 3mm Dia x 4mm Long Shoulder, M2 Thread	
28	SS Spring 0.36" OD, 0.438" Free Ln, 0.172" Solid Length, Load @ Solid 8.579 lbs	Stainless Steel (18-8)
29	#0-80X0.25", 90 deg., head pin guide screw, Peek material	PEEK unfilled
30	Compression Plate Bottom Cam Lid 58x47mm IC	Torlon 5530
31	Floating Guide, 58x47mm 1.2mm pitch LGA416	Semitron MDS 100
32	Floating Guide Spring	Alloy Steel (SS)
33	LGA Stamped Pin 1mm pitch	N/A
31	CBT socket base 58x47mm IC	7075-T6 Aluminum Alloy
35	Pin orientation guide 58x47mm 1.2mm pitch BGA416	Kapton Polyimide/Cirlex
36	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel

Description: Socket Assy, Insulation Plate

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-LGA-5012 Drawing ©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 299.09	STATUS: Released ENG: S. Huang FILE: CBT-LGA-5012 Dwg	SHEET: 4 OF 4 DRAWN BY: M. Raske DATE: 06/02/2016	REV. A SCALE: 1:1