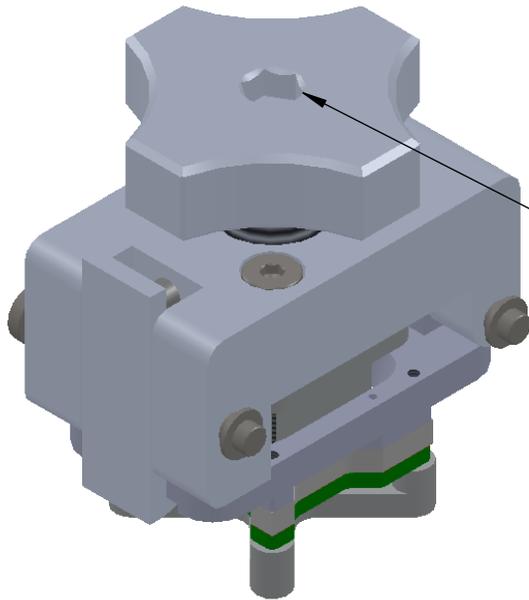


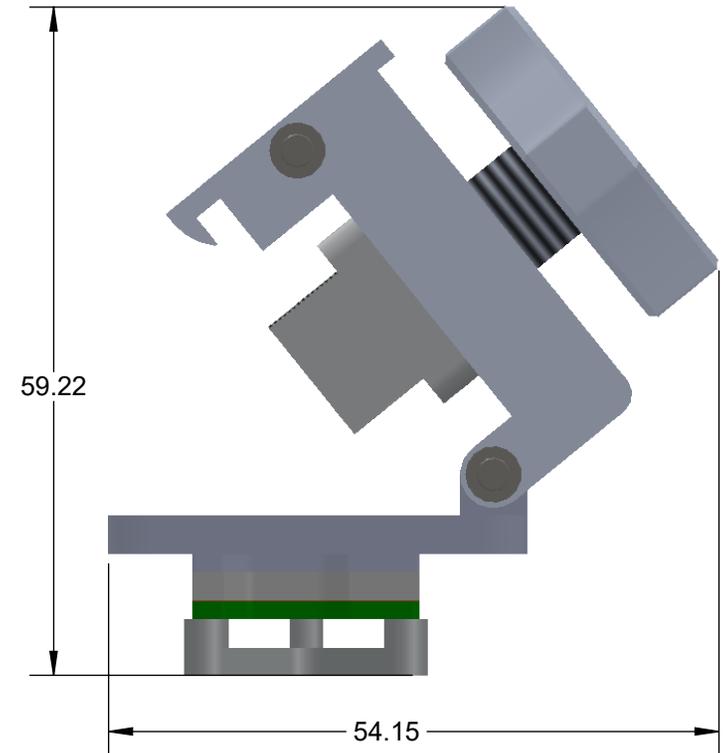
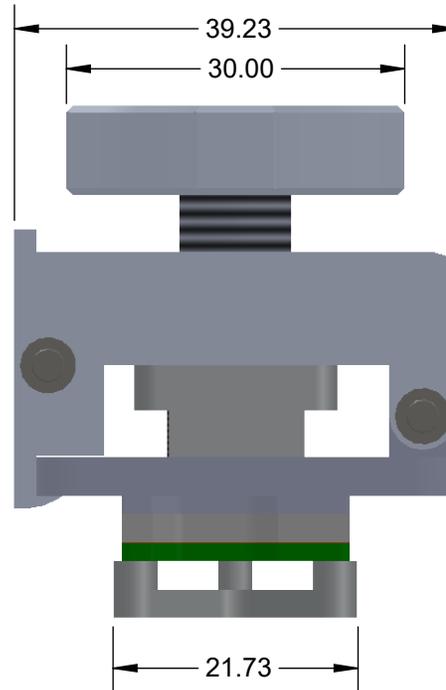
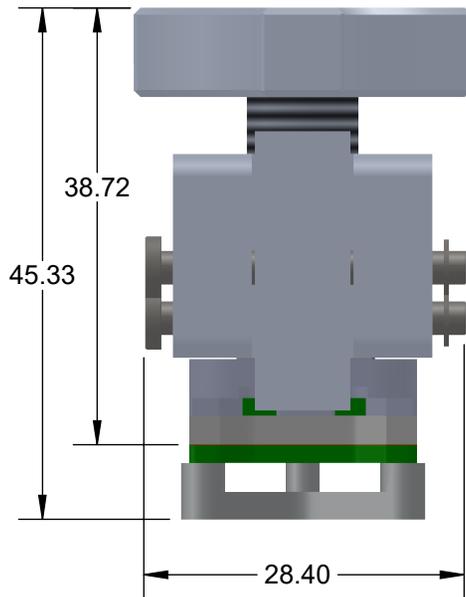
CG-QFN DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

Features

- Directly mounts to target PCB (needs tooling holes) with hardware
- Minimum real estate required
- Compression plate distributes evenly
- Clamshell lid



Using hex key, turn the compression screw clockwise half a turn after compression plate contacts QFN package



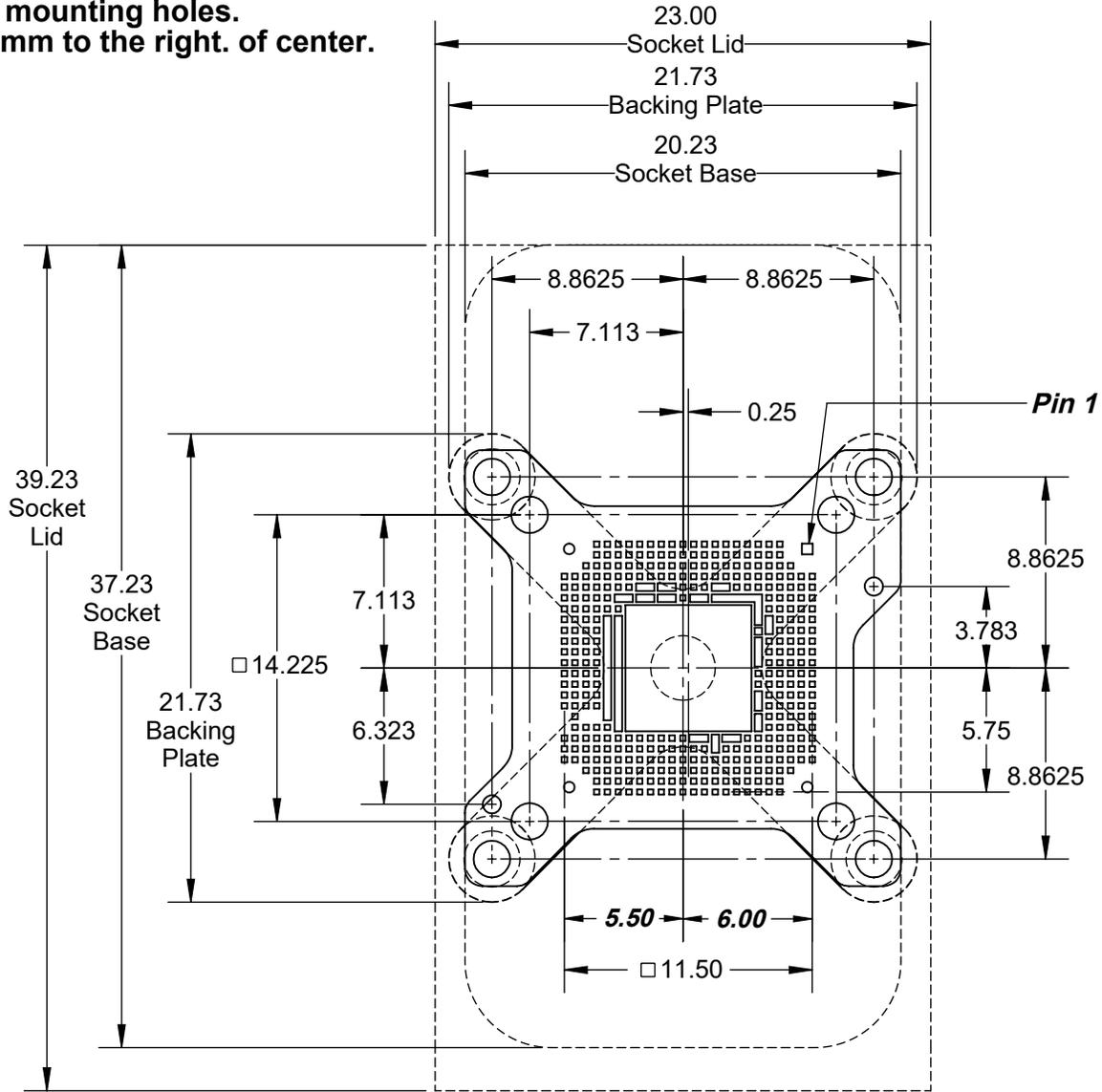
Description: CBT-QFN 12.5MM 24X24 0.5MM

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

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

 CBT-QFN-7001 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 59.74	STATUS: Released ENG: E.Smolentseva FILE: CBT-QFN-7001 Dwg	SHEET: 1 OF 5 DRAWN BY: M. Raske DATE: 06/18/2015	REV. B SCALE: 3:2

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



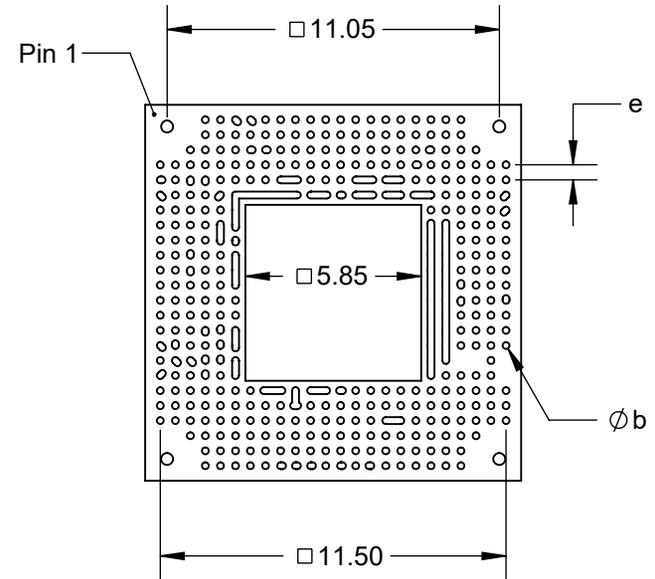
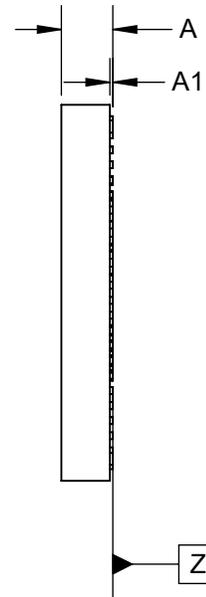
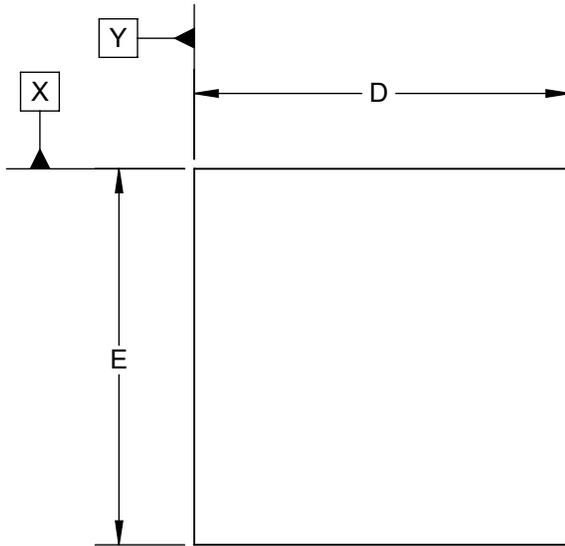
Description: Recommended PCB Layout

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-QFN-7001 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 59.74	STATUS: Released	SHEET: 2 OF 5	REV. B
		ENG: E.Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: CBT-QFN-7001 Dwg	DATE: 06/18/2015	

Ironwood Package Code: 338L aQFN



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.

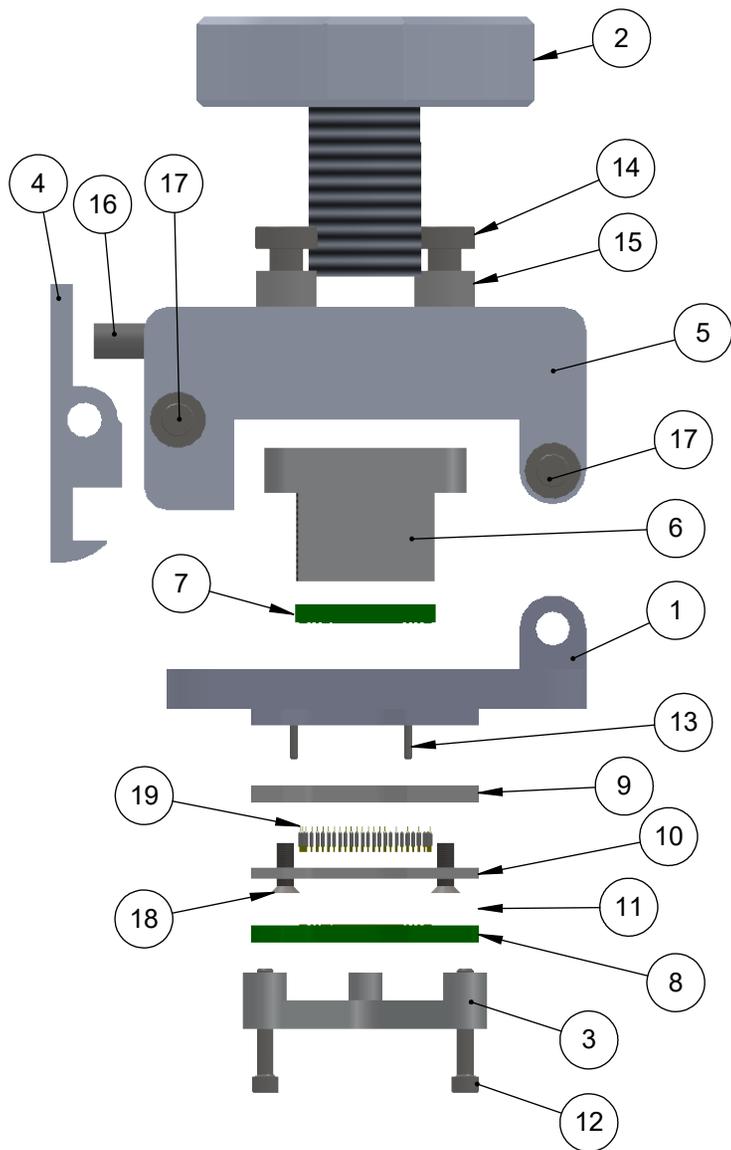
DIM	Minimum	Maximum
A	-	0.85
A1	0.120	0.140
b	0.64	0.74
D	12.50 BSC	
E	12.50 BSC	
e	0.50 BSC	
ARRAY	24 x 24	
PIN COUNT	-	

Description: Compatible BGA

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

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

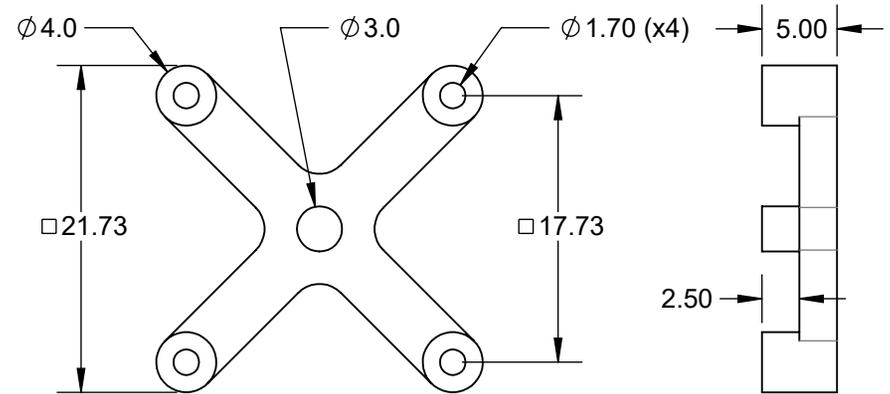
 CBT-QFN-7001 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 59.74	STATUS: Released	SHEET: 3 OF 5	REV. B
		ENG: E.Smolentseva	DRAWN BY: M. Raske	SCALE: 4:1
		FILE: CBT-QFN-7001 Dwg	DATE: 06/18/2015	



ITEM NO.	Description	Material
1	Socket Base	Material <not specified>
2	M10 Compression Screw	7075-T6 Aluminum Alloy
3	Backing Plate 5 post 15mm IC	7075-T6 Aluminum Alloy
4	Clamshell Latch	7075-T6 Aluminum Alloy
5	Clamshell lid, aluminum, for 13x13mm IC	7075-T6 Aluminum Alloy
6	Compression Plate	7075-T6 Aluminum Alloy
7	Test Chip	Material <not specified>
8	Test PCB	Material <not specified>
9	Pogo Pin Guide, Top	PEEK Ceramic filled
10	Pogo Pin Guide, Bottom	PEEK Ceramic filled
11	Pin Orientation Guide	Kapton Polyimide/Cirlex
12	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
13	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
14	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
15	Spring Clamshell lid assembly	Steel Music Wire
16	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
17	Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS	Stainless Steel (ferritic)
18	#0-80, 90 deg., head pin guide screw, Peek material	PEEK unfilled
19	SBT-LGA/QFN Pogo Pin, 0.5mm-0.8mm	Contact Mtrl: BeCu, Au Plated over Ni



PIN DETAIL



Backing Plate

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-QFN-7001 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 59.74	STATUS: Released	SHEET: 4 OF 5	REV. B
		ENG: E.Smolentseva	DRAWN BY: M. Raske	SCALE: 2:1
		FILE: CBT-QFN-7001 Dwg	DATE: 06/18/2015	

Rev	Date	Initials	Description
A	6/18/15	MR	Original
B	8/18/15	MR	Replaced obsoleted compression screw, and other screws. VectoWorks to Solidworks conversion.

Description: Modification History

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-QFN-7001 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. B
		ENG: E.Smolentseva	DRAWN BY: M. Raske	SCALE: 2:1
		FILE: CBT-QFN-7001 Dwg	DATE: 06/18/2015	