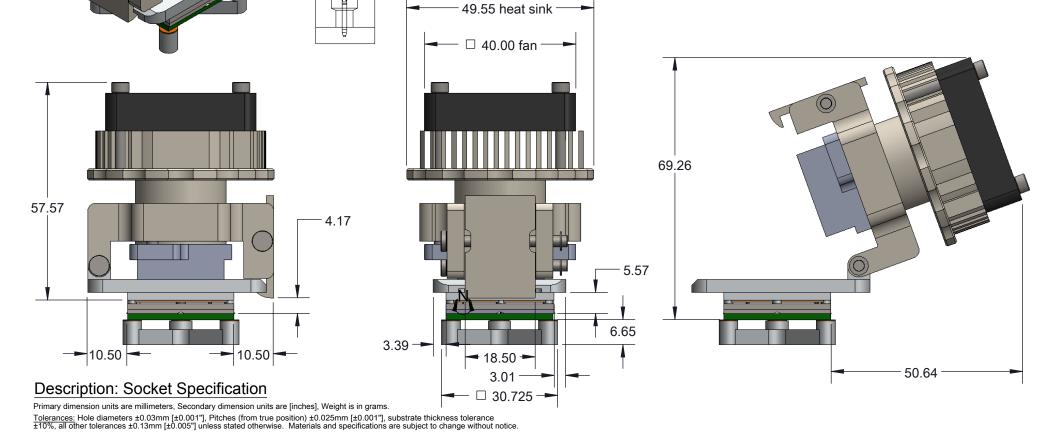
SBT Clamshell Socket

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.

DETAIL N SCALE 16:1

Recommended torque is 8.5 - 10.75 in lb.

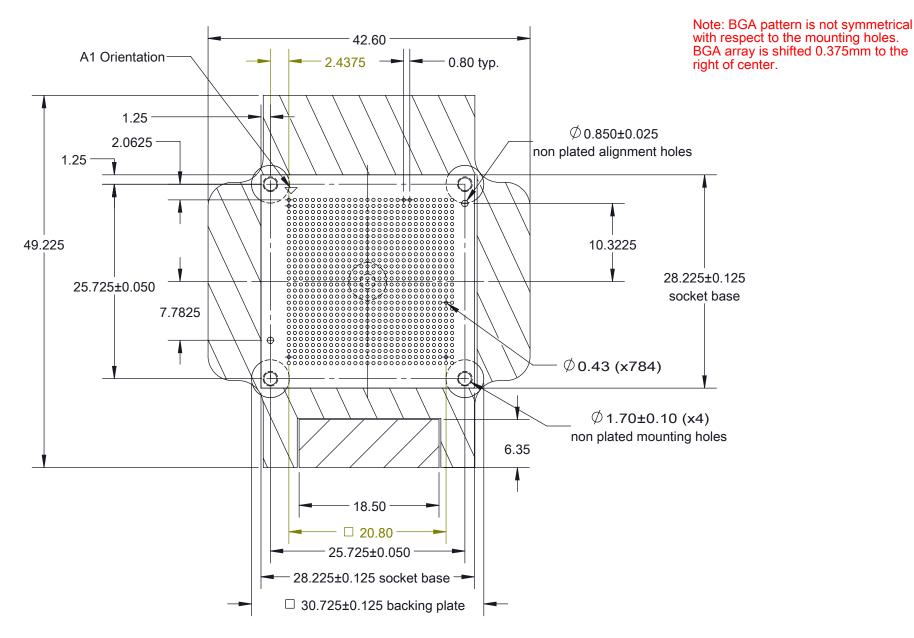


CBT-BGA-6032 Drawing

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com Material: Material <not specified> Finish: --

Weight: 164.76

STATUS: Released	SHEET: 1 OF 5	REV. A
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 1:1
FILE: CBT-BGA-6032	DATE: 4/24/13	



Description: Recommended PCB Layout

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

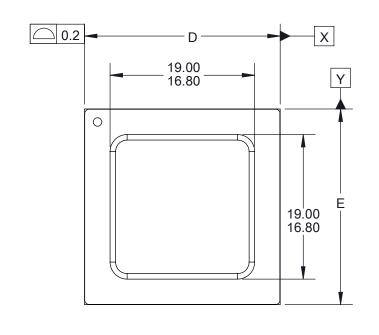
 $\frac{Tolerances:}{\pm 10\%, all other tolerances \pm 0.03mm \ [\pm 0.001"], Pitches (from true position) \pm 0.025mm \ [\pm 0.001"], substrate thickness tolerance \\ \pm 10\%, all other tolerances \pm 0.13mm \ [\pm 0.005"] unless stated otherwise. Materials and specifications are subject to change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

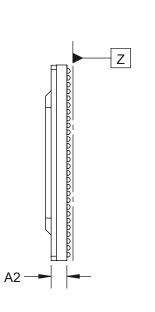
Target PCB Recommendations Total thickness: 1.6mm min. Plating: Gold or Solder finish PCB Pad height: same or higher than

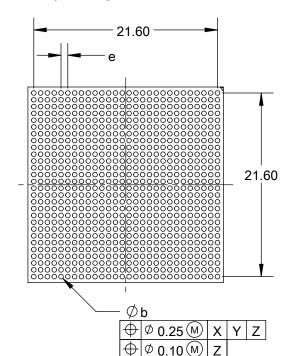
solder mask

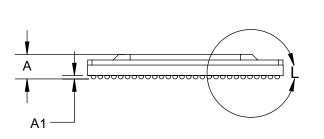
CBT-BGA-6032 Drawing Material: Material <not specified> Finish: -Weight: 164.76 Material: Material <not specified> Finish: -Weight: 164.76 STATUS: Released SHEET: 2 OF 5 REV. A ENG: V. Panavala FILE: CBT-BGA-6032 DATE: 4/24/13

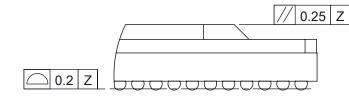
Ironwood Electronics package code: BGA784C











DETAIL L SCALE 6 : 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.

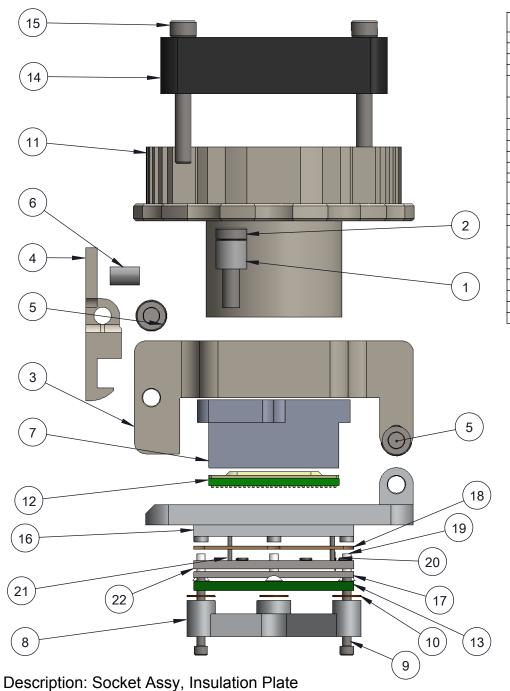
DIM	Minimum	Maximum	
Α	2.266	2.766	
A1	0.3	0.5	
b	0.4	0.60	
D	23.00 BSC		
Е	23.00 BSC		
е	0.8 BSC		
ARRAY	28 X 28		
PIN COUNT		784	

Description: Compatible BGA

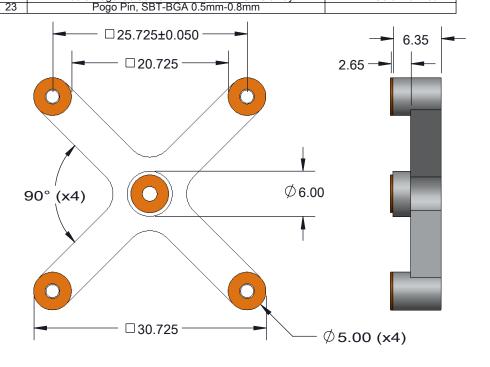
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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-6032 Drawing Mate		Finish:	STATUS: Released	SHEET: 3 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	ENG: V. Panavala		DRAWN BY: V. Panavala	SCALE: 2.25:1	
			FILE: CBT-BGA-6032	DATE: 4/24/13	



	NO.	DESCRIPTION	Material
Г	1	Spring Clamshell lid assembly	Steel Music Wire
	2	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
	3	Socket Lid	7075-T6 Aluminum Alloy
	4	Latch	7075-T6 Aluminum Alloy
	5	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	AISI 1045 Steel, cold drawn
	6	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
Г	7	CBT 23mm Compression plate Ni Plated	7075-T6 Aluminum Alloy
Γ	8	Backing PLate	7075-T6 Aluminum Alloy
Γ	9	#0-80 x 0.5, SH Cap Screw	Alloy Steel
Г	10	Insulating washer, 5mm OD.	Kapton Polyimide/Cirlex
	11	Heat sink Compression Screw M24 threads	7075-T6 Aluminum Alloy
L	12	Customer's BGA IC	FR4 Standard
	13	Customer's target PCB for 23x23mm 28x28 0.8mm pitch BGA684	FR4 Standard
Γ	14	Fan 40X10MM 12VDC 1.6W 9.9CFM	Material <not specified=""></not>
Г	15	Screw, #4-40 X 7/8", Cap	Alloy Steel
	16	CBT Socket Base Clamshell 23mm IC W/posts 0.375mm offset	7075-T6 Aluminum Alloy
Γ	17	Bottom Pogo pin Guide 23x23mm 0.8mm 28x28 array	PEEK Ceramic filled
Г	18	Floating Guide 23x23mm 0.8mm 28x28 array	Semitron MDS 100
	19	#0-80 X .188" LG FL HD, Slotted, Polypropylene	PP Homopolymer
Ĺ	20	Floating Guide Spring	Alloy Steel (SS)
L	21	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
Ĺ	22	Middle Pogo Guide 23x23mm 0.8mm 28x28 array	PEEK Ceramic filled
	00		



Insulation Plate Specification

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.

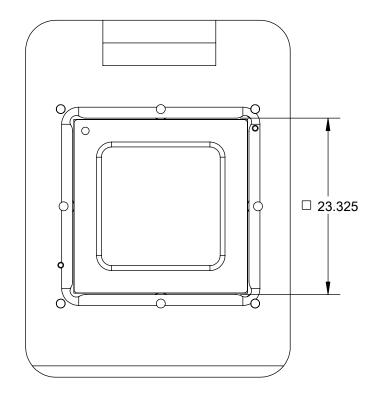
CBT-BGA-6032 Drawing



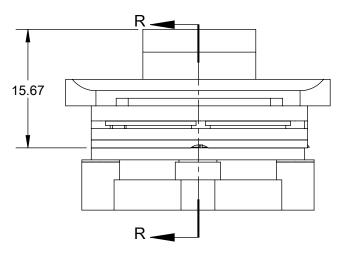
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com Material: Material <not specified> Finish: --

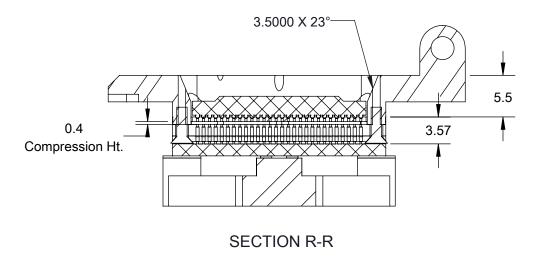
STATUS: Released	SHEET: 4 OF 5	REV. A
ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 2:1
FILE: CBT-BGA-6032	DATE: 4/24/13	

Weight: 164.76



Recommended Force 23.5 Kgs





Description: Socket Specification(2)

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-6032 Drawing		Finish:	STATUS: Released	SHEET: 5 OF 5	REV. A
	ENG: V. Panavala		DRAWN BY: V. Panavala	SCALE: 2:1	
	. ` .'	, a.e. (a.e., /, .e., a=a.e.	FILE: CBT-BGA-6032	DATE: 4/24/13	