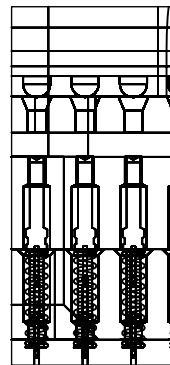
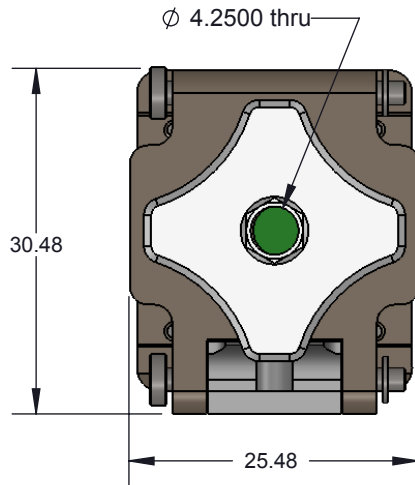


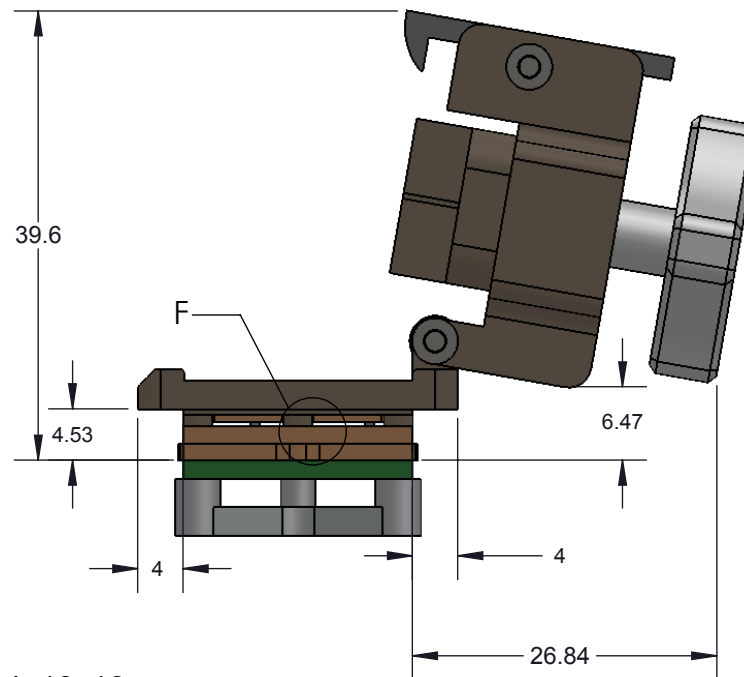
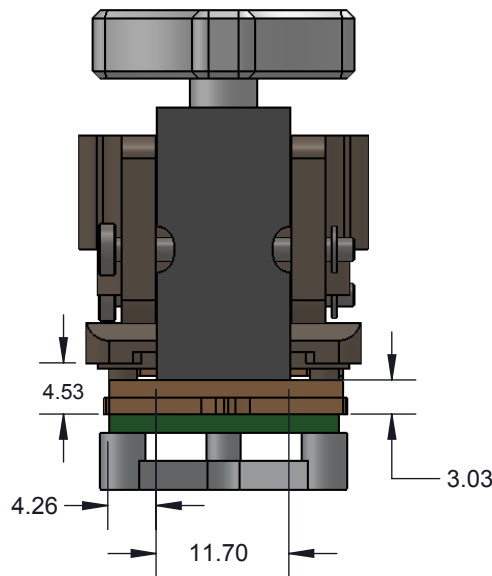
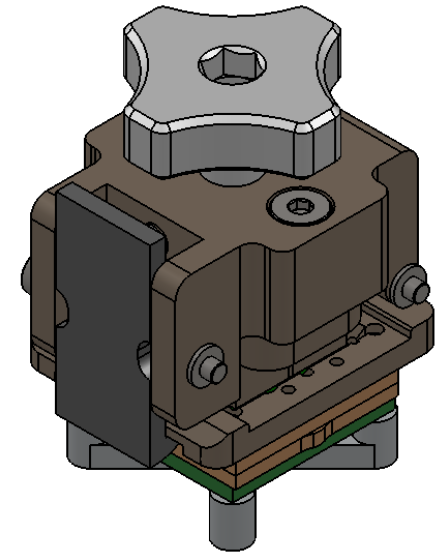
CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

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



DETAIL F
SCALE 8 : 1

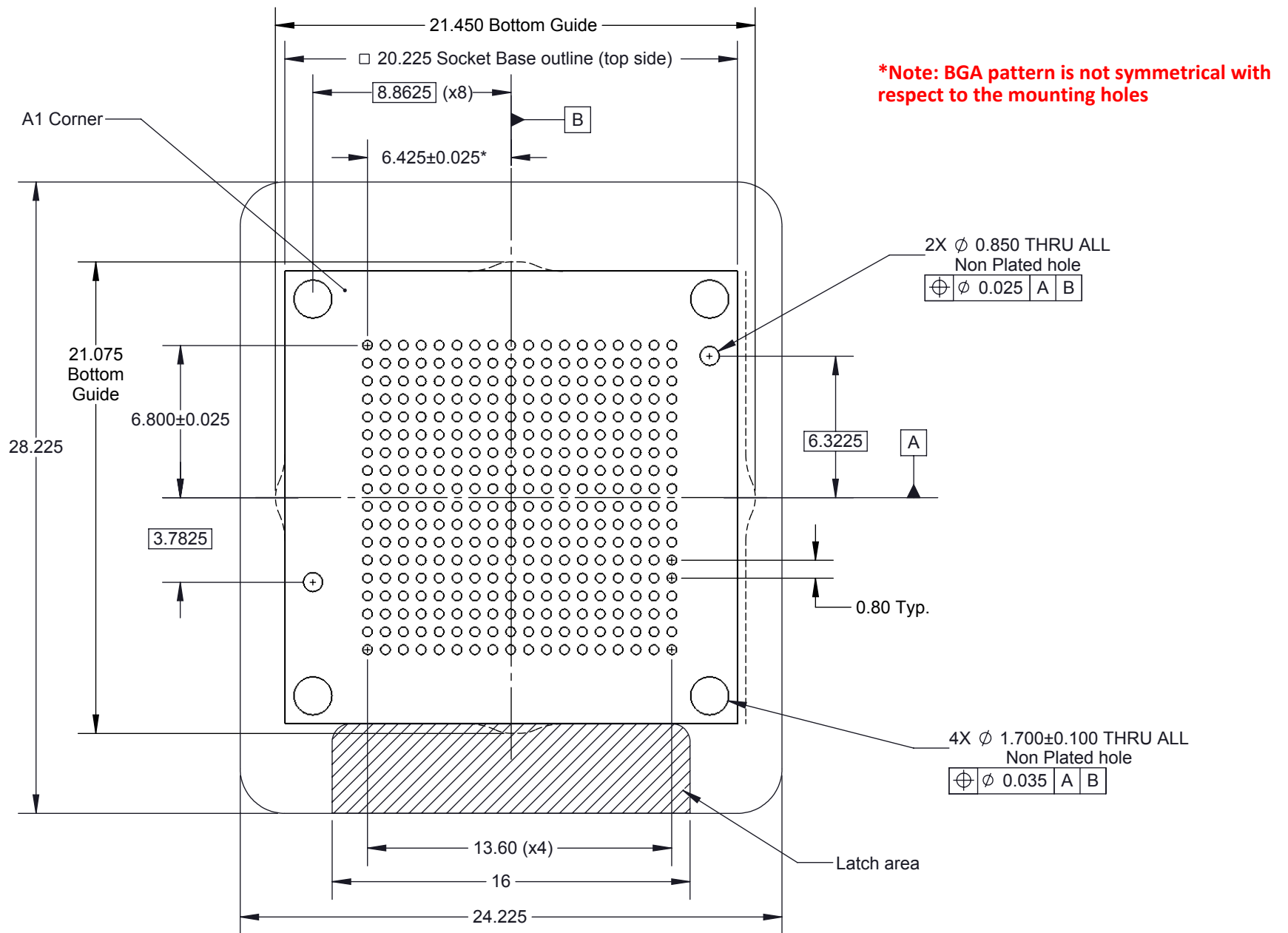


Description: CBT-BGA324 15x15mm 0.8mm pitch 18x18 array

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-6033 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 41.53	STATUS: Released ENG: V. Panavala FILE: CBT-BGA-6033	SHEET: 1 OF 5 DRAWN BY: V. Panavala DATE: 5/23/13	REV. B SCALE: 3:2
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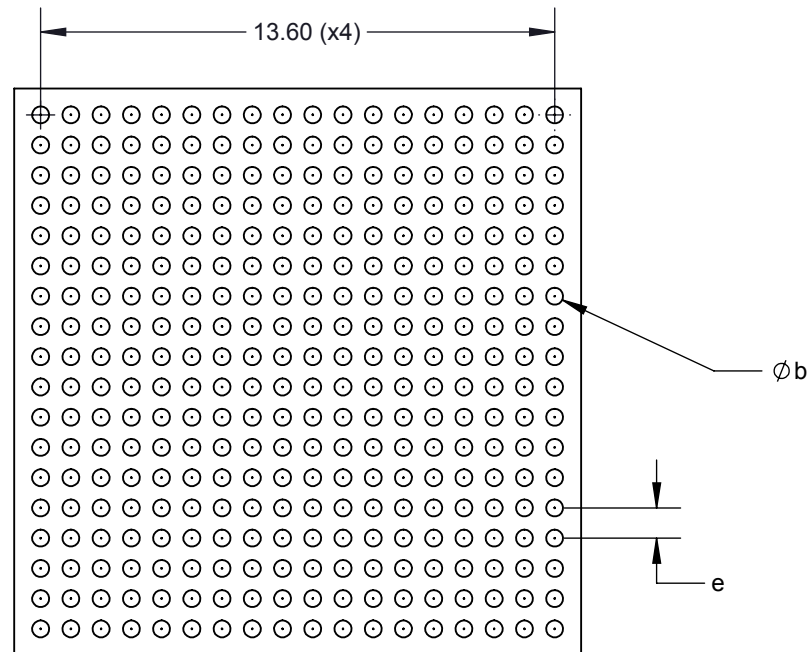
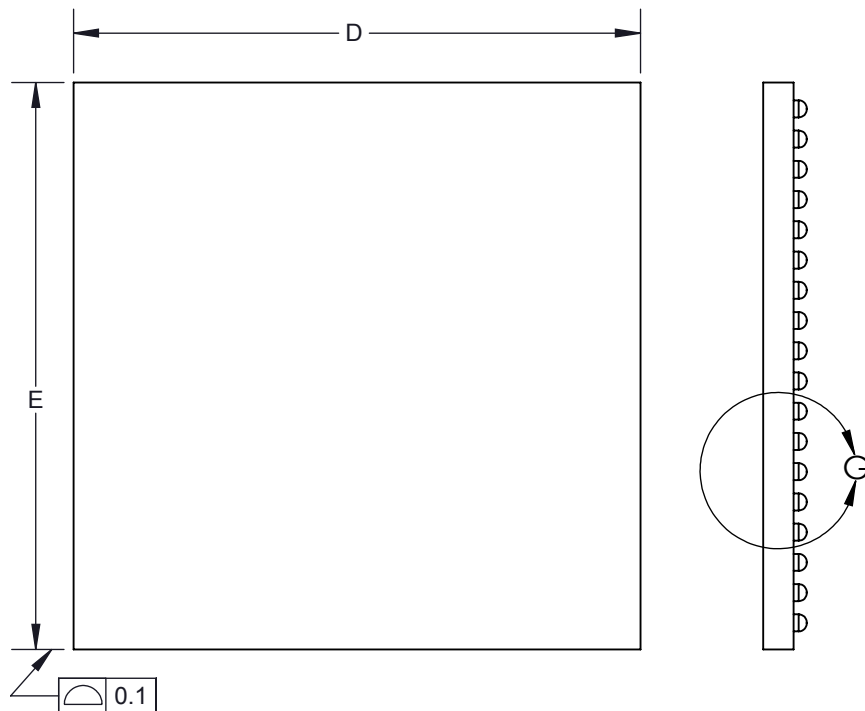
Description: Recommended PCB Layout

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

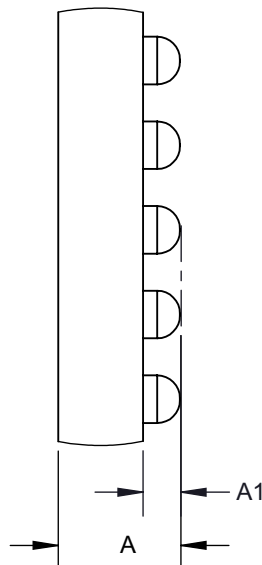
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

Target PCB Recommendations
Total thickness: 1.6mm min.
Plating: Gold or Solder finish

CBT-BGA-6033 Drawing  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 41.53	STATUS: Released ENG: V. Panavala FILE: CBT-BGA-6033	SHEET: 2 OF 5 DRAWN BY: V. Panavala DATE: 5/23/13	REV. B SCALE: 4:1



**DETAIL G
SCALE 14 : 1**



DIM	Minimum	Maximum
A		1.75
A1	0.25	0.4
b	0.40	0.50
D	15 BSC	
E	15 BSC	
e	0.8 BSC	
PIN COUNT		324

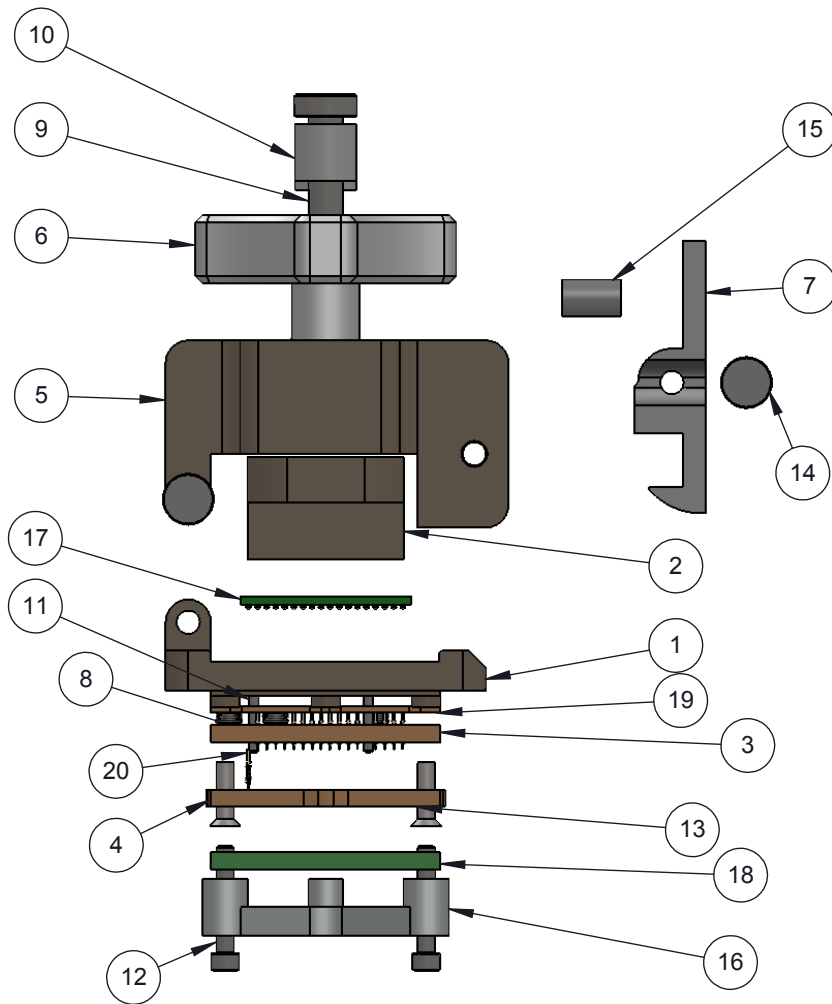
Ironwood Package Code : BGA324M

Description: Compatible BGA

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

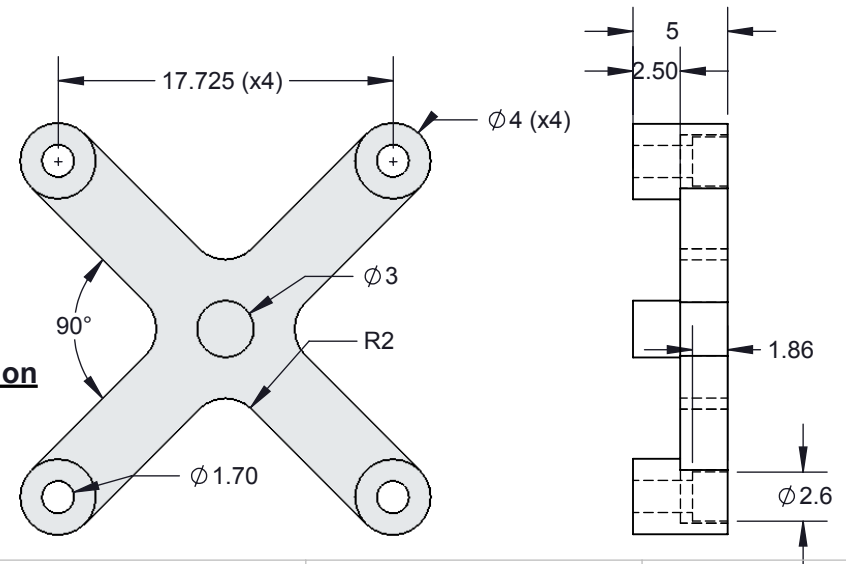
Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change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

 CBT-BGA-6033 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 41.53	STATUS: Released	SHEET: 3 OF 5	REV. B
		ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 5:1
		FILE: CBT-BGA-6033	DATE: 5/23/13	



ITEM NO.	DESCRIPTION	Material
1	CBT Socket Base 15mm	7075-T6 Aluminum Alloy
2	CBT Compression Plate 15mm IC	7075-T6 Aluminum Alloy
3	Middle Pogo Guide 15x15mm 0.8mm 18x18 array	Semitron MDS 100
4	Bottom Pogo pin Guide 15x15mm 0.8mm 18x18 array	Semitron MDS 100
5	Clam Shell Socket Lid 10mm IC	7075-T6 Aluminum Alloy
6	M6x1 fluted knob compression screw 4.25mm thru hole	7075-T6 Aluminum Alloy
7	Latch 6- 10mm Ni plated	7075-T6 Aluminum Alloy
8	Floating Guide Spring	Alloy Steel (SS)
9	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
10	Spring Clamshell lid assembly	Steel Music Wire
11	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
12	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
13	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
14	Hinge Pin and Snap Ring, 2mm OD, 19mm long, SS	Stainless Steel (ferritic)
15	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
16	Backing Plate 5 post 15mm IC	7075-T6 Aluminum Alloy
17	BGA324 .08mm Pitch	FR4
18	Target PCB BGA324 0.375mm shift 0.8mm pitch	FR4 High temp
19	Floating Guide 15x15mm 0.8mm 18x18array	Semitron MDS 100
20	SBT Pin, SBT-BGA 0.5mm-0.8mm	

Backing plate Specification



Description: Socket Assy, detail

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-6033 Drawing



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

Material: N/A
Finish: N/A
Weight: 41.53

STATUS: Released
ENG: V. Panavala
FILE: CBT-BGA-6033

SHEET: 4 OF 5
DRAWN BY: V. Panavala
DATE: 5/23/13

REV. B
SCALE: 3:2

Rev	Date	Initials	Description
B	3/5/15	RP/MR	P-P196A was P-P149A, R3200 was R1391, adjusted dowel pin

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-6033 Drawing ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: Finish: Weight:	STATUS: Released	SHEET: 5 OF 5	REV. B
		ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 3:2
		FILE: CBT-BGA-6033	DATE: 5/23/13	