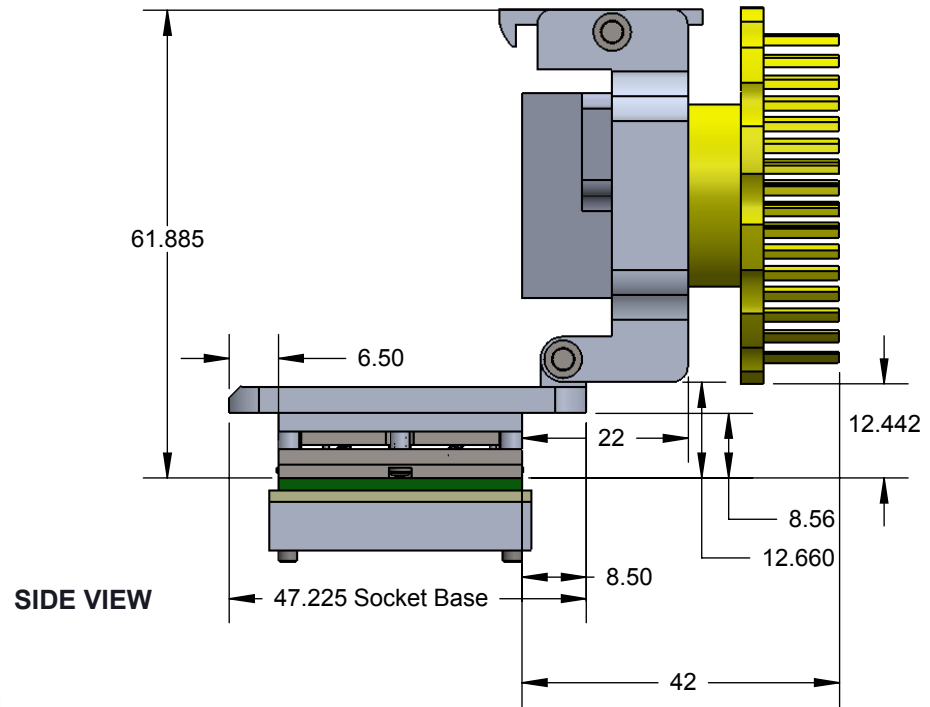
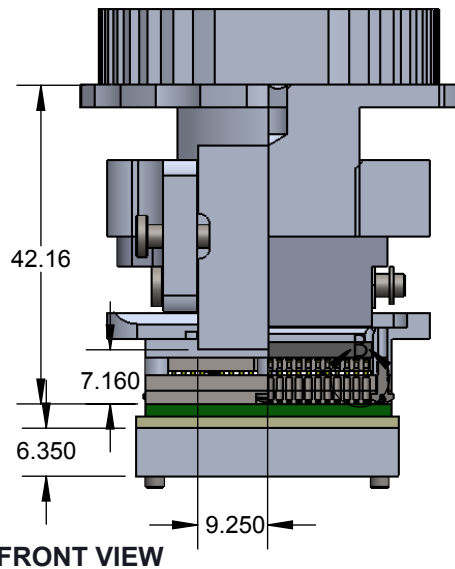
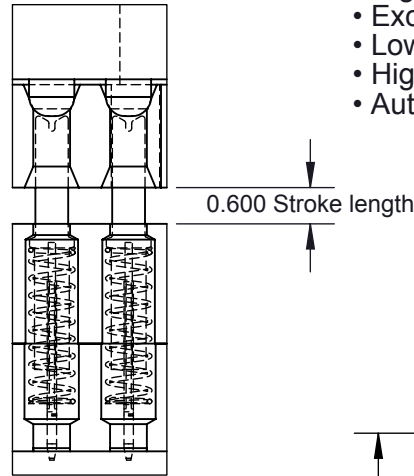
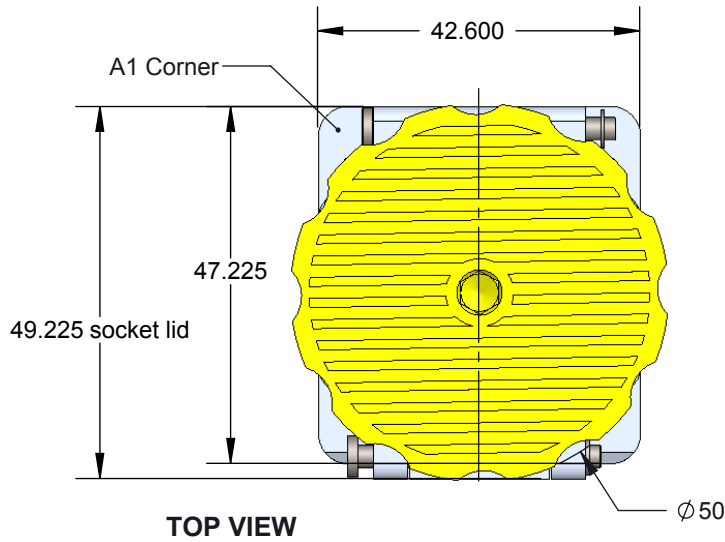


CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

Features

- Wide temperature range (-55C to +180C).
- High current capability (up to 8A).
- 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: CBT-BGA441 21x21 array 27x27 mm 1.27mm pitch

Primary dimension units are millimeters, Secondary dimension units are [inches].

Tolerances: diameters $\pm 0.03\text{mm}$ [± 0.001 "], PCB perimeters $\pm 0.13\text{mm}$ [± 0.005 "], PCB thicknesses $\pm 0.18\text{mm}$ [± 0.007 "], pitches (from true position) $\pm 0.08\text{mm}$ [± 0.003 "], all other tolerances $\pm 0.13\text{mm}$ [± 0.005 "] unless stated otherwise. Materials and specifications are subject to change without notice.

CBT-BGA-6022 Drawing



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

WEIGHT: 176.38
MATERIAL:
FINISH:

STATUS: Released

DRAWN BY: V. Panavala

File: CBT-BGA-6022

SHEET 1 OF 4

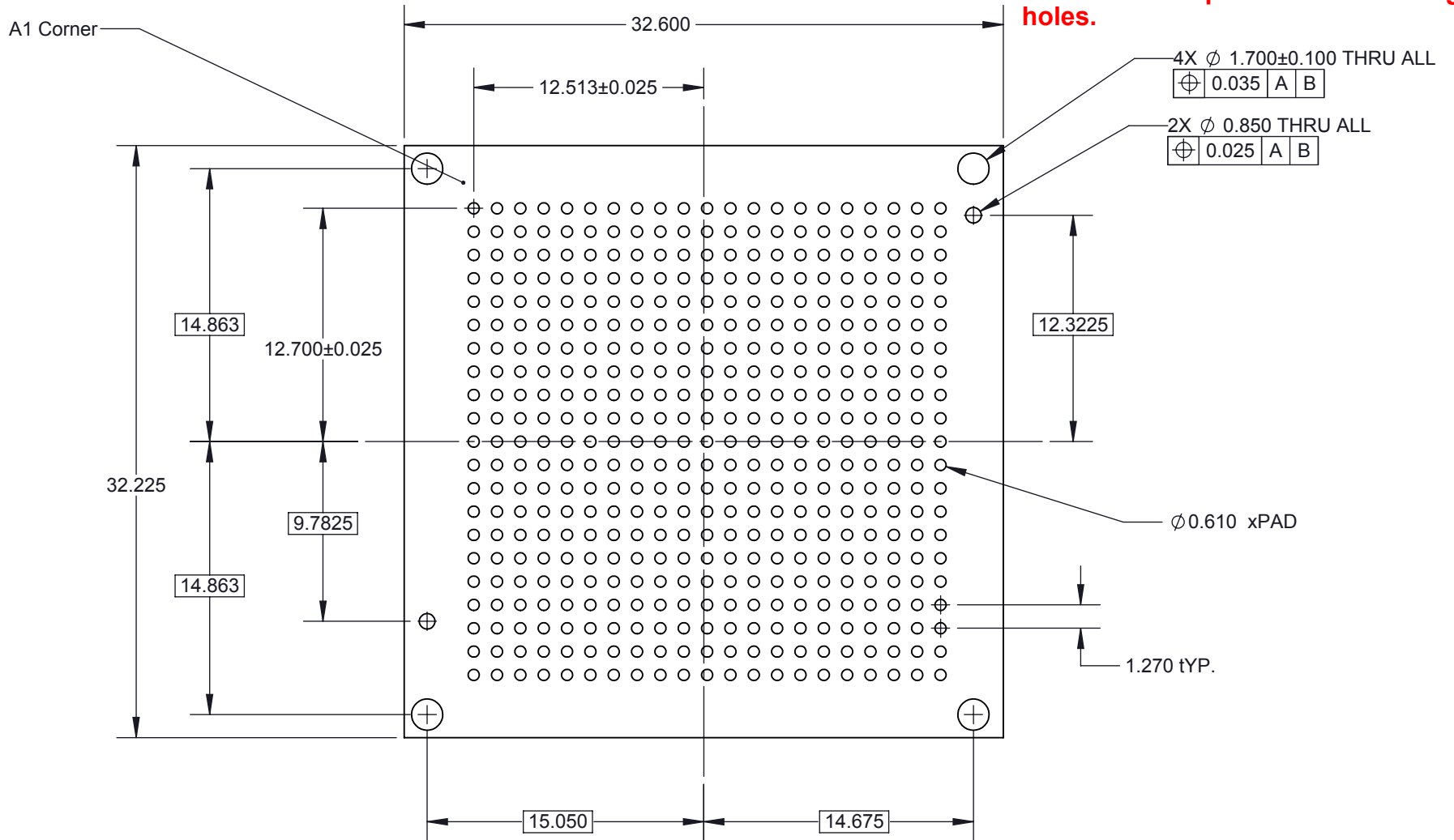
SCALE: 1:1

DATE: 4/23/2012

REV. A

Recommended PCB Layout

Note: BGA pattern is not symmetrical with respect to the mounting holes. It is offset by 0.375mm to the right of center with respect to the mounting holes.



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Primary dimension units are millimeters, Secondary dimension units are [inches].
 Tolerances: diameters $\pm 0.03\text{mm}$ [± 0.001 "], PCB perimeters $\pm 0.13\text{mm}$ [± 0.005 "], PCB thicknesses $\pm 0.18\text{mm}$ [± 0.007 "], pitches (from true position) $\pm 0.08\text{mm}$ [± 0.003 "], all other tolerances $\pm 0.13\text{mm}$ [± 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-6022 Drawing

STATUS: Released

SHEET 2 OF 4

REV. A



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

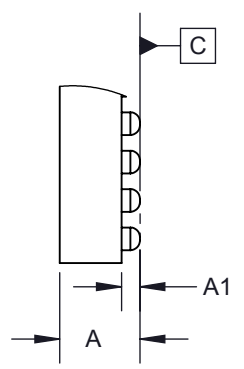
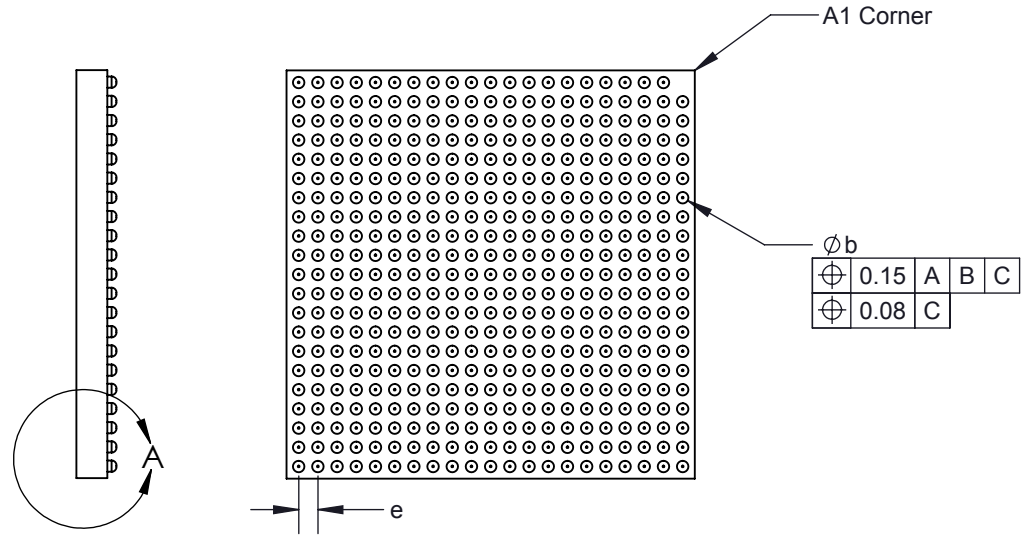
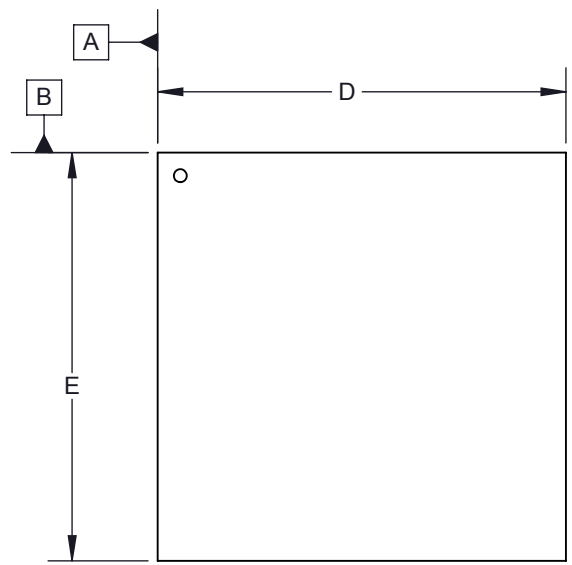
WEIGHT: 176.38
 MATERIAL:
 FINISH:

DRAWN BY: V. Panavala

SCALE: 3:1

File: CBT-BGA-6022

DATE: 4/23/2012



DETAIL A
SCALE 4 : 1

DIM	MIN	MAX
A		4.00
A1	0.61	
b	0.75	
D	26.85	27.15
E	26.85	27.15
e	1.27	

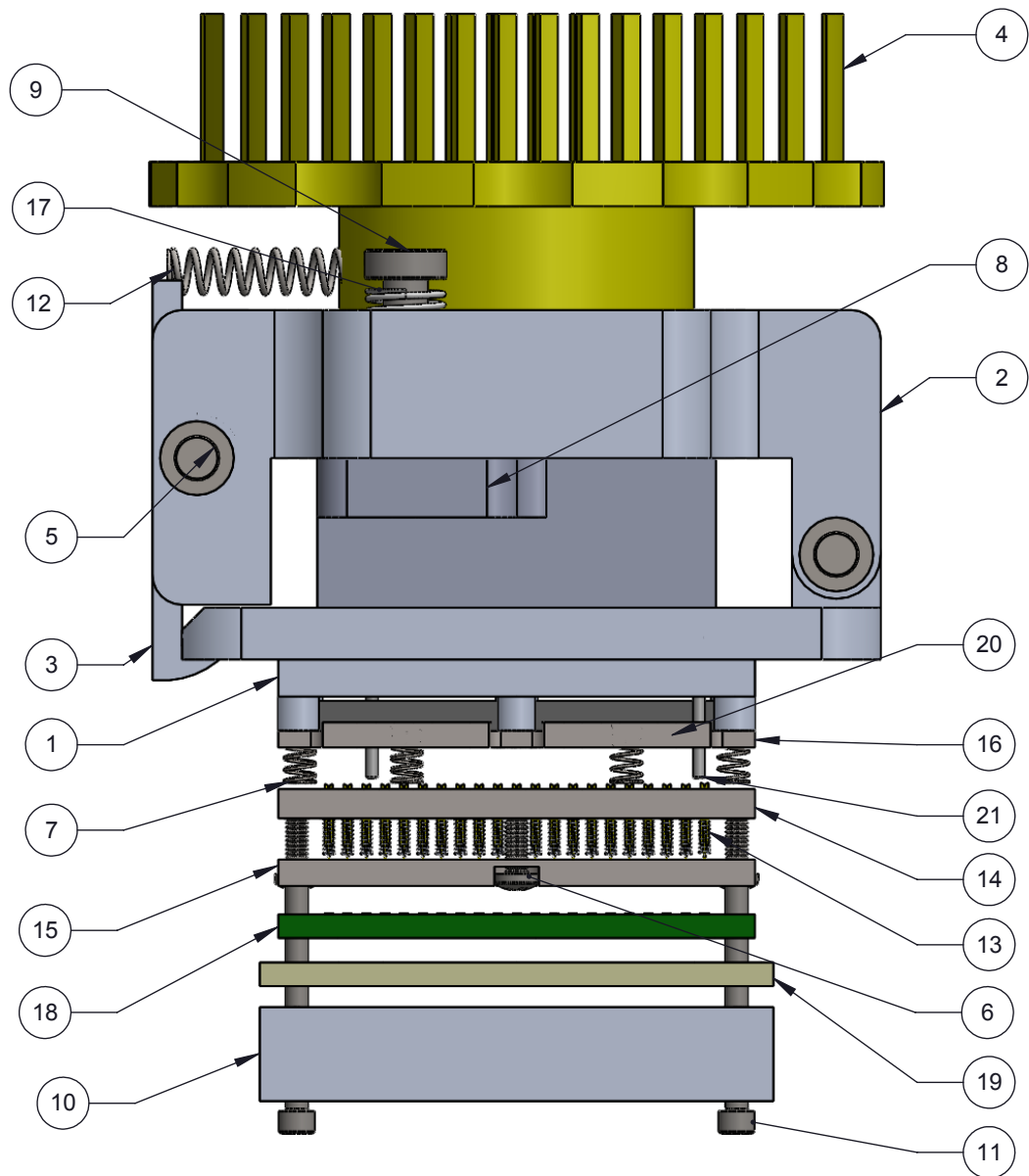
1. Dimensions are in millimeters.
2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C.
4. Datum C (seating plane) is defined by the spherical crowns of the solder balls.
5. Parallelism measurement shall exclude any effect of mark on top surface of package.

Description: CBT-BGA441 21x21 array 27x27 mm 1.27mm pitch

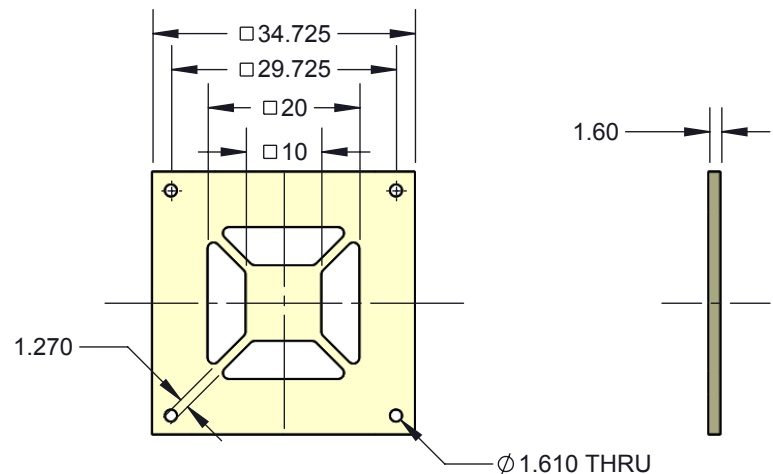
Primary dimension units are millimeters, Secondary dimension units are [inches].
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CBT-BGA-6022 Drawing

 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	WEIGHT: 176.38 MATERIAL: FINISH:	STATUS: Released DRAWN BY: V. Panavala File: CBT-BGA-6022	SHEET 3 OF 4 SCALE: 2:1 DATE: 4/23/2012	REV. A
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ITEM NO.	Description	Material
1	CBT socket base 27mm with posts	7075-T6 Aluminum Alloy
2	Socket Lid	7075-T6 Aluminum Alloy
3	obsolete	7075-T6 Aluminum Alloy
4	Heat sink Compression Screw M24 threads	7075-T6 Aluminum Alloy
5	Hinge Pin and Snap Ring, 3mm OD, 30mm long, 1045 Stl, Blk Oxide	AISI 1045 Steel, cold drawn
6	Screw, #0-80 x .188", Pan, SS	Material <not specified>
7	Floating Guide Spring	Alloy Steel (SS)
8	Compression plate	7075-T6 Aluminum Alloy
9	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
10	Backing Plate 27x27mm	7075-T6 Aluminum Alloy
11	#0-80 X .625 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
12	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
13	Pogo Pin, 1mm Pitch SBT BGA pin	
14	Middle gde 21x21 array 1.27mm pitch	PEEK Ceramic filled
15	Bottom gde 21x21 array 1.27mm pitch	PEEK Ceramic filled
16	Floating gde 21x21 array 1.27mm pitch	PEEK Ceramic filled
17	Spring Clamshell lid assembly	Steel Music Wire
18	PCB BGA441 1.27mm pitch 21x21 array	FR4
19	Insulation Plate	FR4
20	BGA441 27x27mm 21x21 array 1.27mm Pitch	Material <not specified>
21	Dowel Pin, 1/32" x 3/8", SS	Chrome Stainless Steel



Description: CBT-BGA441 21x21 array 27x27 mm 1.27mm pitch

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INSULATION PLATE

CBT-BGA-6022 Drawing		STATUS: Released	SHEET 4 OF 4	REV. A
 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	WEIGHT: 176.38	DRAWN BY: V. Panavala	SCALE: 1:1	
	MATERIAL:	File: CBT-BGA-6022	DATE: 4/23/2012	
	FINISH:			