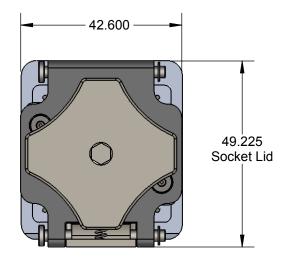
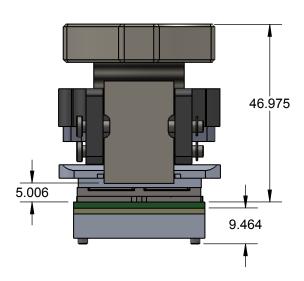
# CBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS





#### **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

69.230 66.491 6.500 -6.375 - 7.250 47.225 Socket Base

## Description: CBT-BGA 27x27mm, 0.8mm 32x32 array - 7 Watts

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

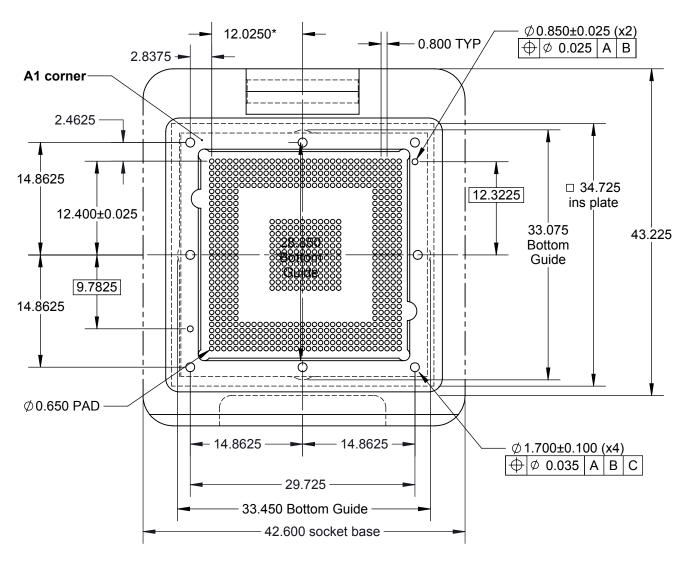
<u>Tolerances:</u> Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

	CBT-BGA-6005 Drawing		
Ì	4	Ironwood Electronics, Inc Tele: (800) 404-0204 www.ironwoodelectronics.co	
	V.	www.ironwoodelectronics.co	

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com Material: N/A Finish: N/A Weight: 160.16

STATUS: Released	SHEET: 1 OF 5	REV. B
ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 1:1
FILE: CBT-BGA-6005 Dwg	DATE: 04/08/2015	

\*Note: BGA pattern is not symmetrical with respect to the mounting holes. It is shifted by 0.375mm 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 ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±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

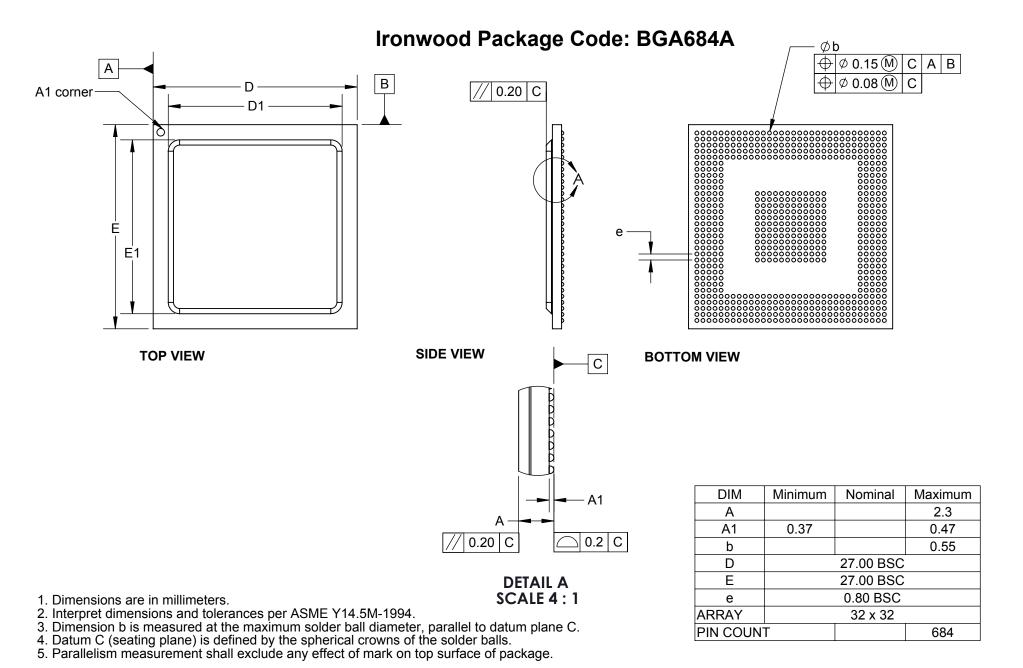
PCB Pad height: same or higher than solder mask

#### **CBT-BGA-6005 Drawing**



Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 160.16

STATUS: Released	SHEET: 2 OF 5	REV. B
ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 2:1
FILE: CBT-BGA-6005 Dwg	DATE: 04/08/2015	

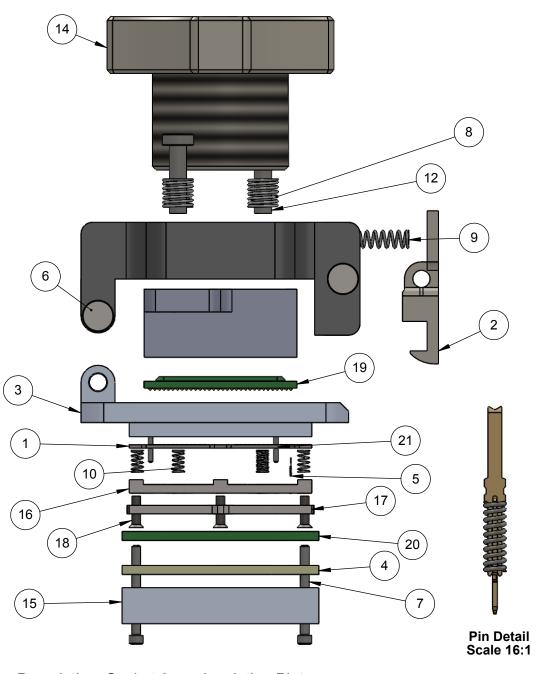


## **Description: Compatible BGA**

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-6005 Drawing	Finish: N/A Weight: 160.16	STATUS: Released	SHEET: 3 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 2:1
www.ironwoodelectronics.com		FILE: CBT-BGA-6005 Dwg	DATE: 04/08/2015	



Top Guide BGA684 32x32 arr 0.8mm pitch PEEK Ceramic filled 16 Bottom Guide BGA684 32x32 arr 0.8mm 17 PEEK Ceramic filled pitch #0-80, 90 deg., head pin guide screw, Peek 18 PEEK unfilled material 5.5715mm overall Length 19 Test Chip 32x32 8mm Material <not specified> 20 Test PCB 32x32 8mm Material <not specified> Dowel pin, 1/32" X 1/4", SS 21 Stainless Steel (18-8) 1.59 □ 34.725 □ 29.725 7.940 **Insulation and Backing Plate**  $\emptyset$  1.61 Thru (x4) Scale 1:1

**ITEM** 

NO.

2

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<u>4</u>

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DESCRIPTION

Floating Guide BGA684 32x32 arr 0.8mm

pitch

Latch

Socket Base
Insulation Plate 27mm IC

SBT Pin, SBT-BGA 0.5mm-0.8mm
Hinge Pin and Snap Ring, 3mm OD, 30mm

long, 1045 Stl, Blk Oxide #0-80 X .625 LG, SOC HD CAP SCREW,

ALLOY STL, BLK OXIDE
Spring Clamshell lid assembly

Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016"

Wire

Floating Guide Spring Compression plate

Screw, M3 x 12mm, Low Head Cap, SS

Socket Lid

Compression Screw
Backing Plate 27x27mm

Material

PEEK Ceramic filled

7075-T6 Aluminum Alloy

7075-T6 Aluminum Alloy

FR4

AISI 1045 Steel, cold drawn

Alloy Steel

Steel Music Wire

Zinc Plated Music Wire

Alloy Steel (SS)

7075-T6 Aluminum Allov

18-8 Stainless Steel

7075-T6 Aluminum Alloy

7075-T6 Aluminum Alloy

7075-T6 Aluminum Alloy

<u>Description: Socket Assy, Insulation Plate</u>

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

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-6005 Drawing



Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 160.16

STATUS: Released	SHEET: 4 OF 5	REV. B
ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 3:2
FILE: CBT-BGA-6005 Dwg	DATE: 04/08/2015	

Rev	Date	Initials	Description
Α	11/6/10	SF	original
B 4/8/15 RP		RP/MR	P-P196A was P-P149A, adjusted dowel pin height, VW to SW

## **Description: Sheet1**

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

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

	CBT-BGA-6005 Drawing	Material:	STATUS: Released	SHEET: 5 OF 5	REV. B
	©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: Weight:	ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 3:2
V	www.ironwoodelectronics.com	vvoignt.	FILE: CBT-BGA-6005 Dwg	DATE: 04/08/2015	