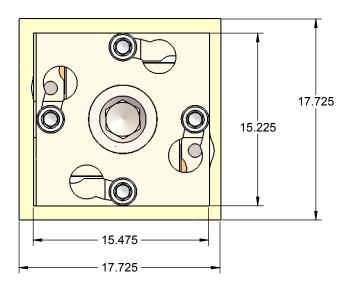
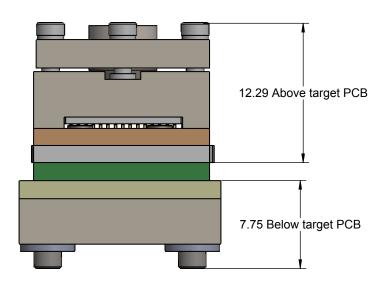
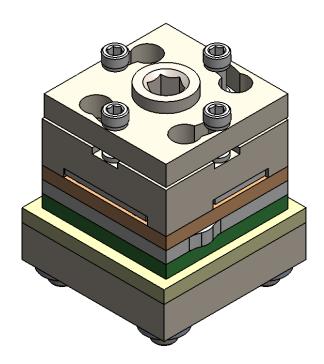
SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS





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.



Description: SBT-BGA 10x10mm, 0.65mm pitch, 15x15 array

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

	SB	T-B	GA-	701	2	Dra	wing	
_								

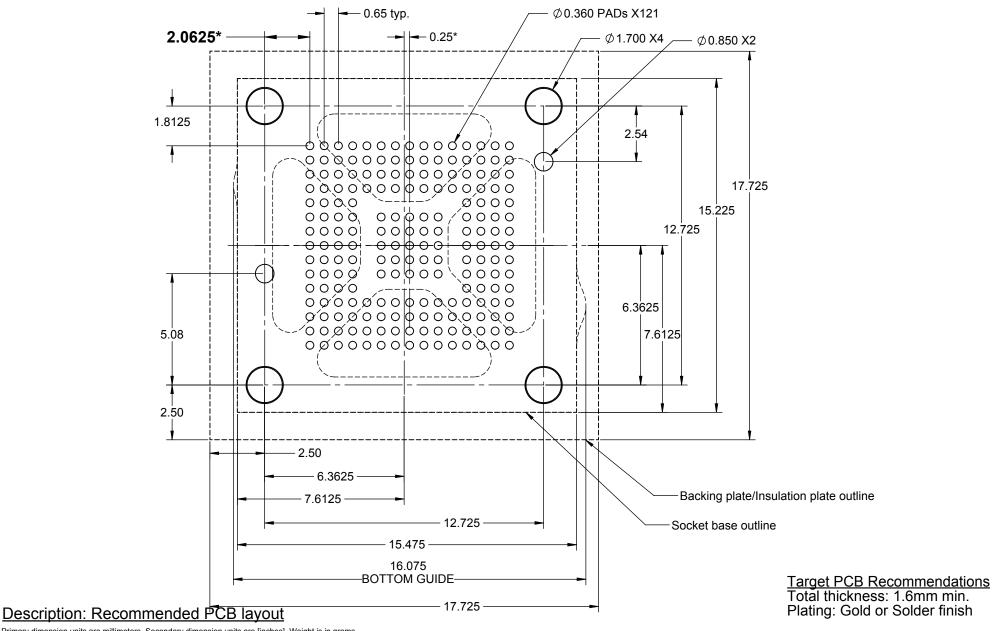
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodélectronics.com

Material: Material <not specified> Finish:

Weight: 10.99

STATUS: Released	SHEET: 1 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
FILE: SBT-BGA-7012 Dwg	DATE: 10/8/2013	

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



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

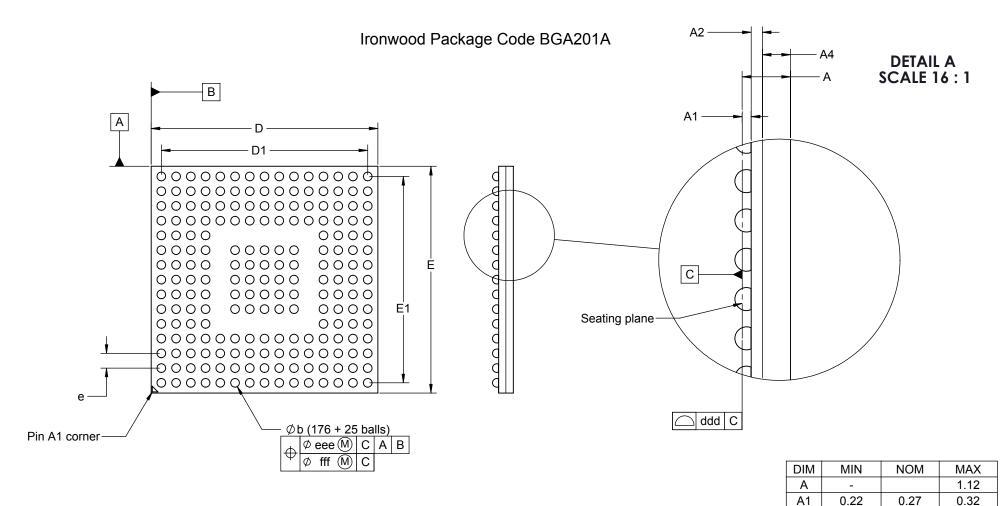
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SBT-BGA-7012 Drawing

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

Weight: 10.99

	STATUS: Released	SHEET: 2 OF 5	REV. B
ENG: E. Smolentseva		DRAWN BY: M. Raske	SCALE: 5.8:1
FILE: SBT-BGA-7012 Dwg		DATE: 10/8/2013	



15 x 15 array

Α2

A4

b

D

D1

Ε

E1

e ddd

eee

fff

0.16

0.57

0.30

9.95

9.95

0.20

0.585

0.35

10.00

9.1

10.00

9.1

0.65

0.24

0.60

0.40

10.05

10.05

0.10

0.15

0.08

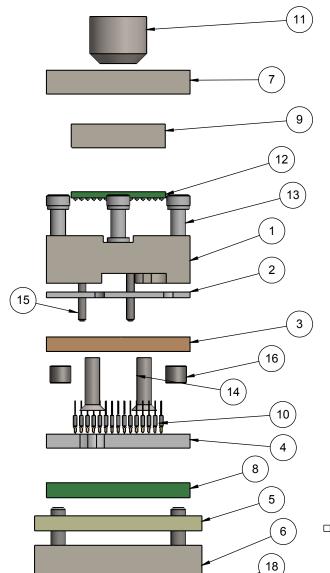
- 1. Dimensions are in millimeters.
- 2. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 3. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C.
- 4. Datum C (seating plane) is defined by the spherical crowns of the solder balls.
- 5. Parallelism measurement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

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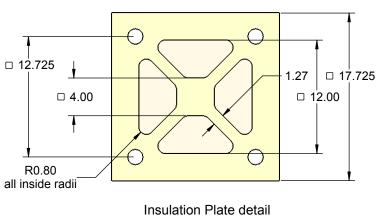
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

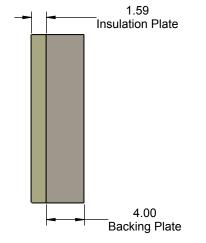
<u>Tolerances:</u> Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SBT-BGA-7012 Drawing		Material: Material <not specified=""></not>	STATUS: Released	SHEET: 3 OF 5	REV. B
•	©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204	Weight: 10.99	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 6:1
	www.ironwoodelectronics.com		FILE: SBT-BGA-7012 Dwg	DATE: 10/8/2013	



ITEM NO.	DESCRIPTION	Material
1	Socket Base SBT BGA 10x10	7075-T6 Alumium Alloy
2	Floating Guide for 10x10mm, 0.65mm pitch 15x15 array	Semitron MDS 100
3	Middle Guide,for 10x10mm 15x15 0.65mmpitch BGA201	Semitron MDS 100
4	Bottom Guide for 10x10mm 15x15 0.65mm pitch BGA201	Semitron MDS 100
5	Insulation Plate	FR4 High temp
6	SBT/CBT Ni plt backing plate 13mm	7075-T6 Aluminum Alloy
7	Socket Lid	7075-T6 Aluminum Alloy
8	customer's target PCB	FR4 High temp
9	Compression Plate	7075-T6 Aluminum Alloy
10	SBT Pin, SBT-BGA 0.5mm-0.8mm	
11	Compression Screw M6x1	Stainless Steel (18-8)
12	Customer's BGA device	FR4 High temp
13	#0-80 Shoulder Screw, 0.090" thread length	Stainless Steel (303)
14	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
15	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
16	Floating Guide Spring	Alloy Steel (SS)
17	#0-80 x 0.5, SH Cap Screw	Alloy Steel
18	Washer, #0 x .025", Nylon	Nylon 6/6





PIN Detail 16:1 scale

Description: Skt, Insulation Plate, Pin Det

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.

SBT-BGA-7012 Drawing

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

Weight: 10.99

STATUS: Released	SHEET: 4 OF 5	REV. B	
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 2.5:1	
FILE: SBT-BGA-7012 Dwg	DATE: 10/8/2013		

Rev	Date	Initials	Description
B 2/12/15 RP/MR P-P196A was P-P149A, R3200 was R2885, Adjusted location		RP/MR	P-P196A was P-P149A, R3200 was R2885, Adjusted location of dowel pins

Description: REVISIONS

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.

	SBT-BGA-7012 Drawing		
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		www.ironwoodélectronics	

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Material: Finish: Weight:

STATUS: Released	SHEET: 5 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 2.5:1
FILE: SBT-BGA-7012 Dwg	DATE: 10/8/2013	