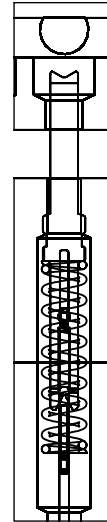
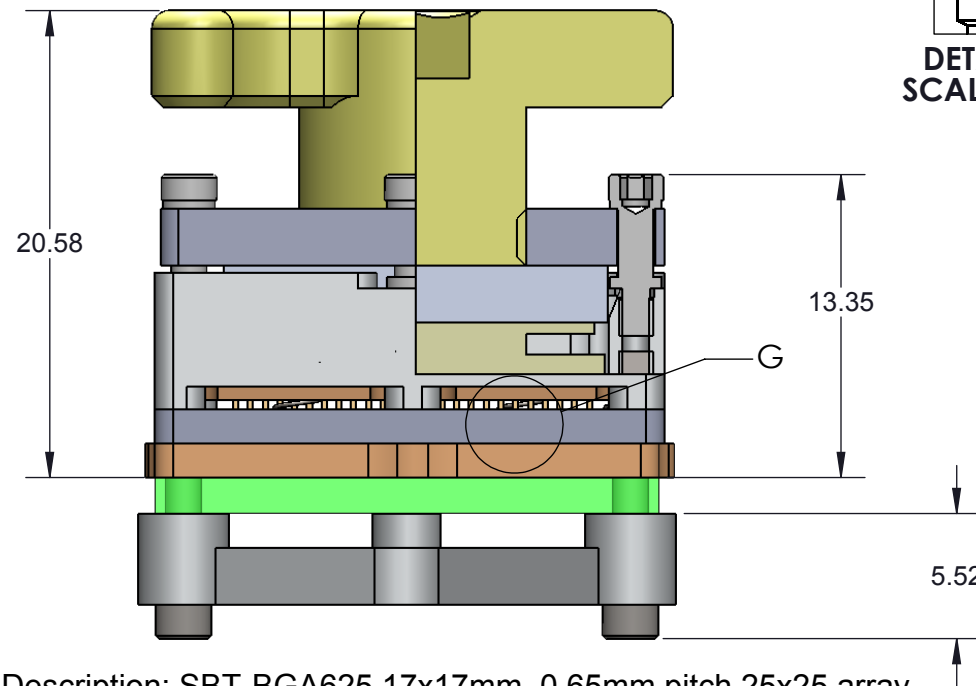
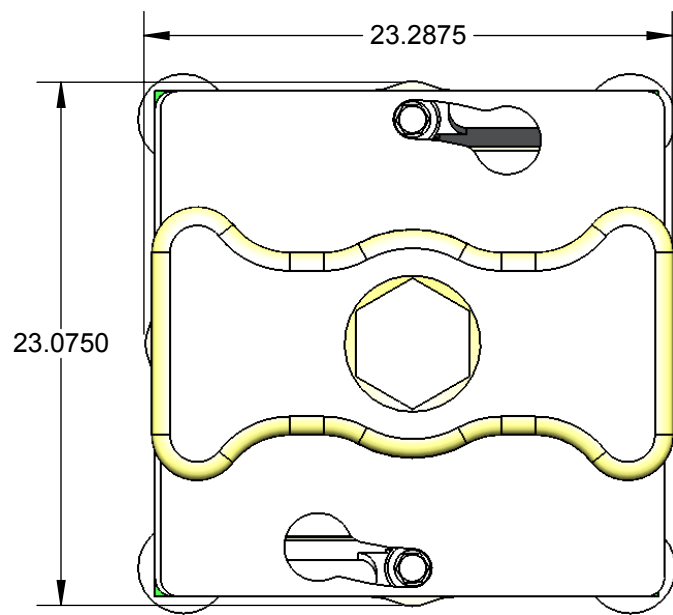
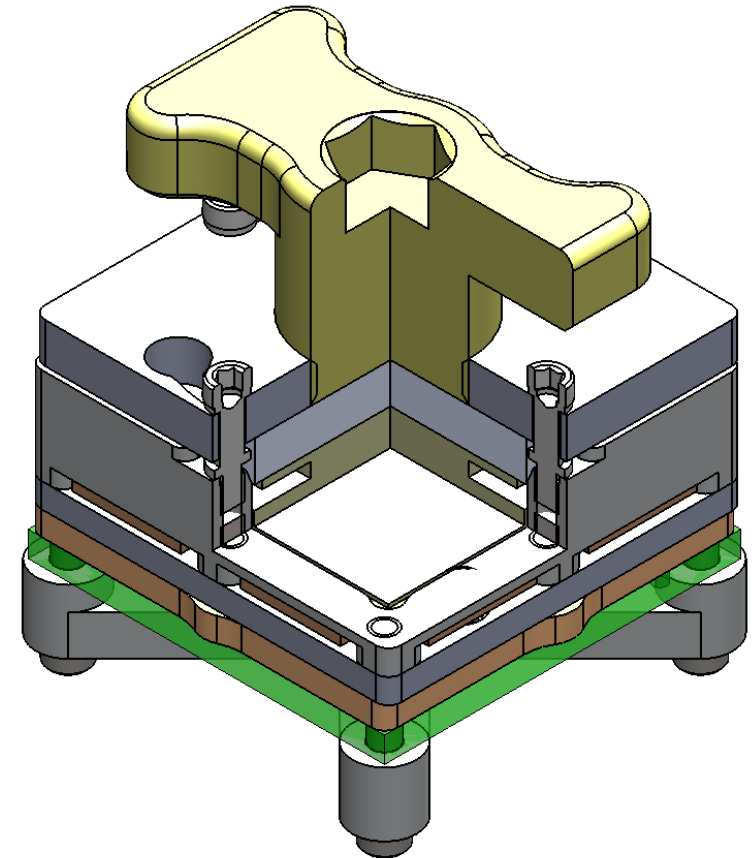


SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS



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-BGA625 17x17mm, 0.65mm pitch 25x25 array

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.

SBT-BGA-7008 Drawing



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

Material: Material <not specified>
Finish:
Weight: 18.15

STATUS: Released

ENG: V. Panavala

FILE: SBT-BGA-7008 Dwg

SHEET: 1 OF 5

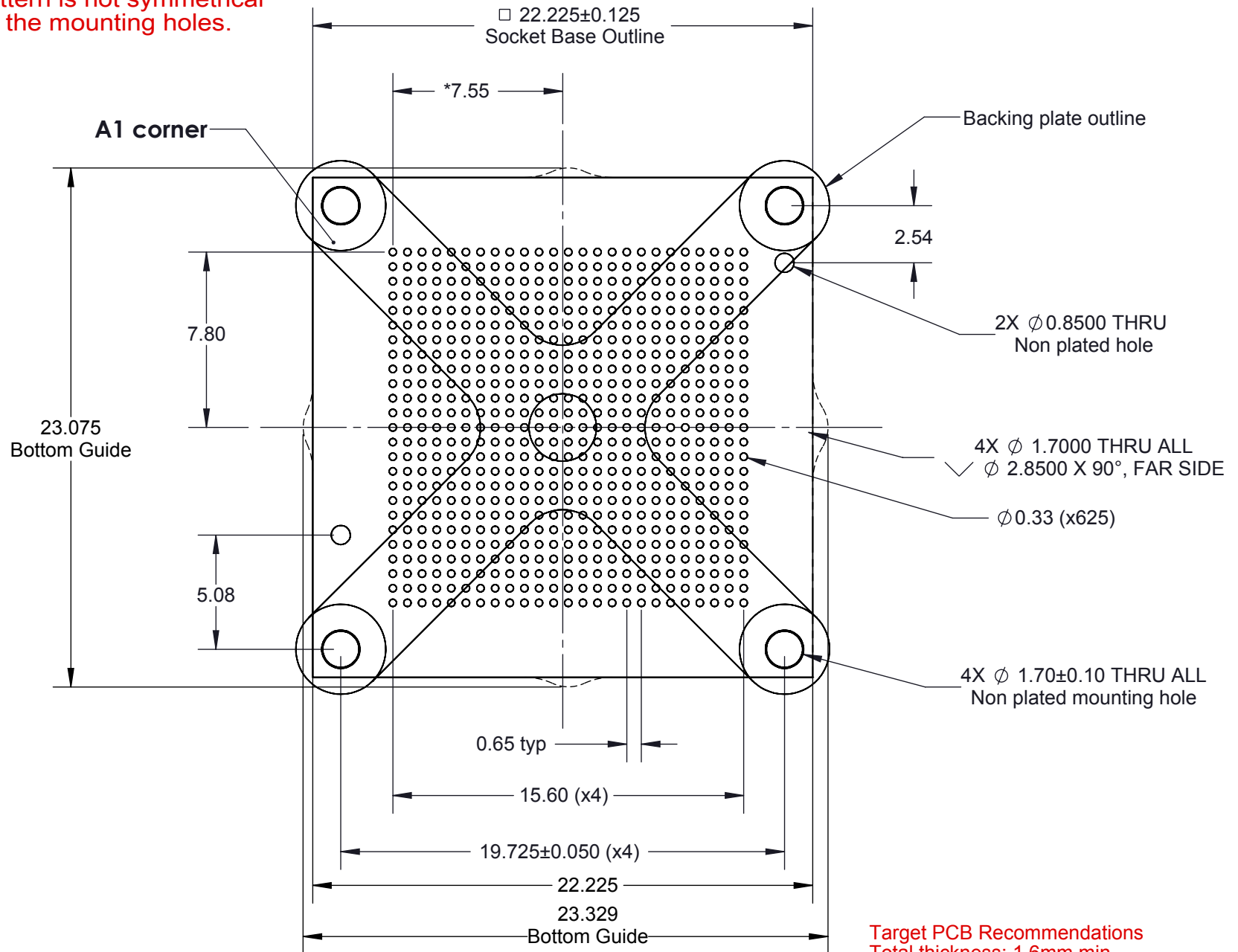
DRAWN BY: V. Panavala

DATE: 2/20/2013

REV. B

SCALE: 3:1

***Note: BGA pattern is not symmetrical with respect to the mounting holes.**



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

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.

SBT-BGA-7008 Drawing



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Tele: (800) 404-0204
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Material: Material <not specified>
Finish:
Weight: 18.15

STATUS: Released

ENG: V. Panavala

FILE: SBT-BGA-7008 Dwg

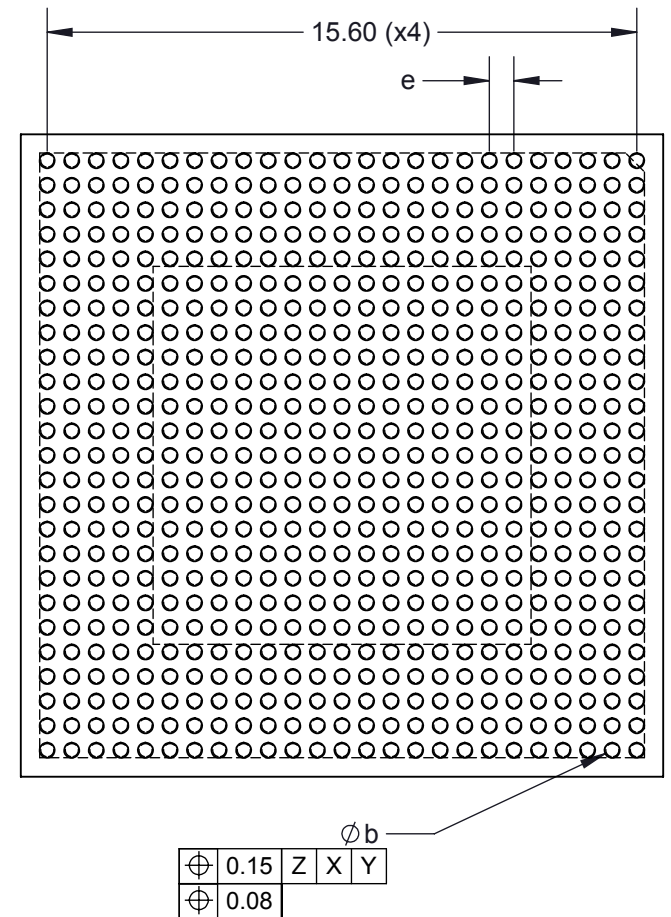
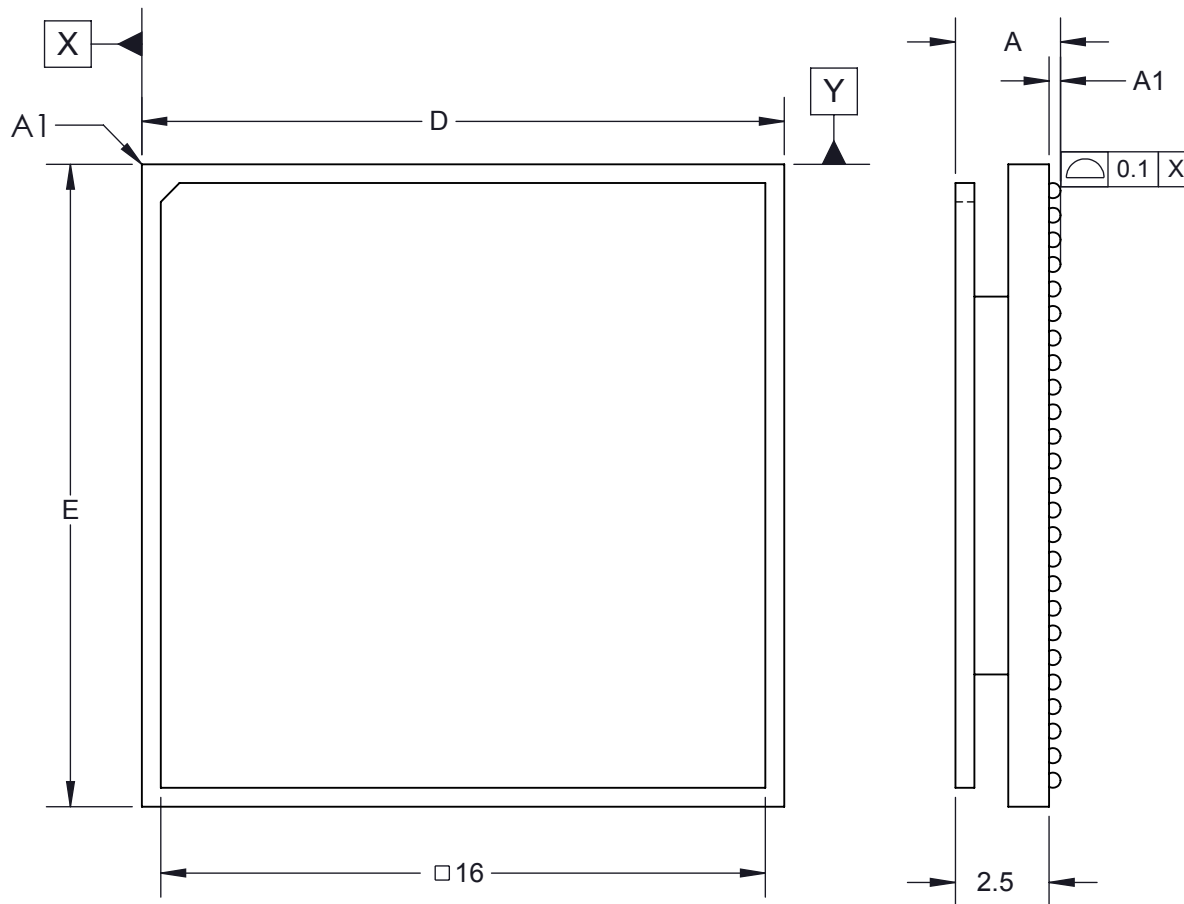
SHEET: 2 OF 5

DRAWN BY: V. Panavala

DATE: 2/20/2013

REV. B

SCALE: 4:1



Ironwood Package Code: BGA625D

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
A		3.2
A1	0.25	0.35
b	0.35	0.45
D	17.0 BSC	
E	17.0 BSC	
e	0.65 BSC	

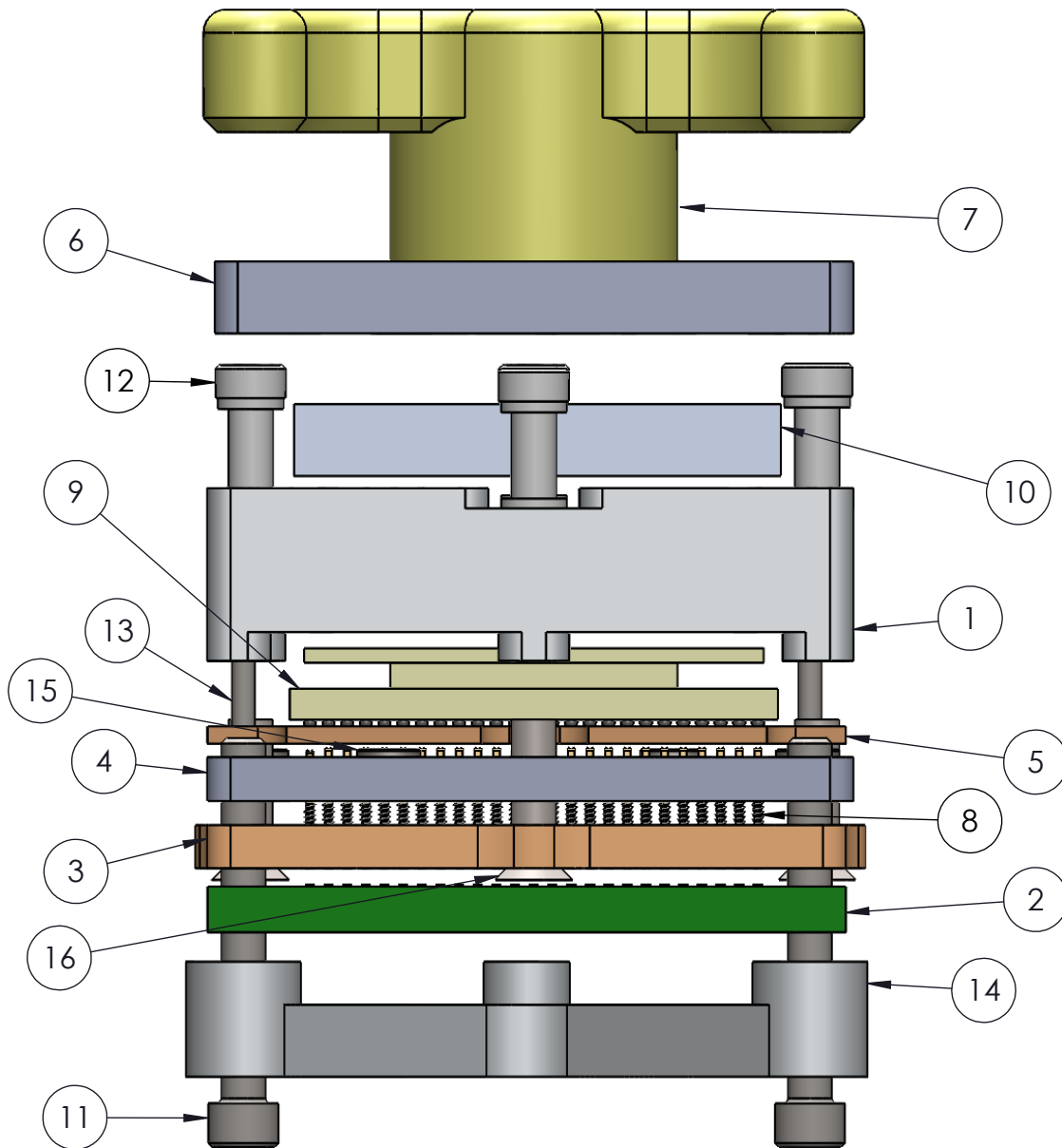
25x25 array

Description: Compatible BGA

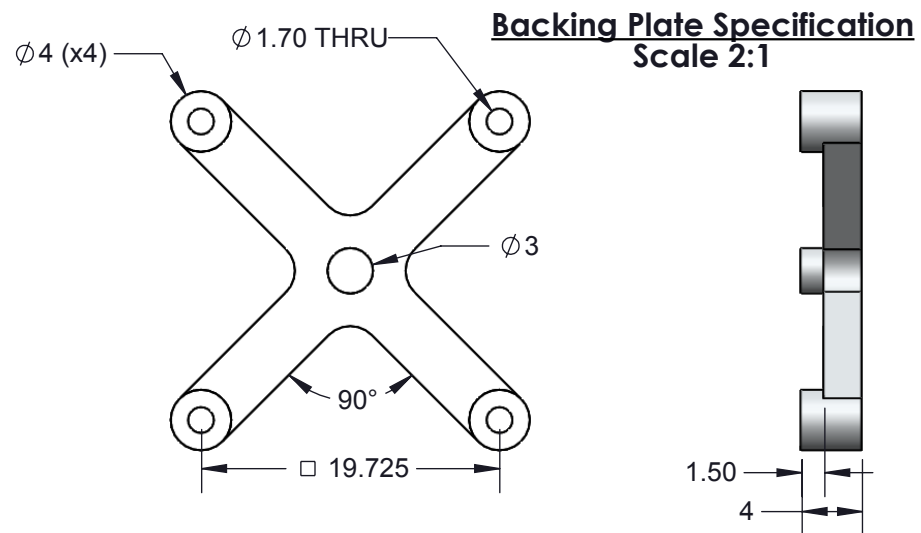
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

SBT-BGA-7008 Drawing		STATUS: Released	SHEET: 3 OF 5	REV. B
	©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	ENG: V. Panavala	DRAWN BY: V. Panavala	SCALE: 5:1
		FILE: SBT-BGA-7008 Dwg	DATE: 2/20/2013	
		Material: Material <not specified> Finish: Weight: 18.15		



ITEM NO.	DESCRIPTION	Material
1	Socket Base, SBT BGA, 17x17mm 0.25mm shift	7075-T6 Aluminum Alloy
2	PCB 17x17mm, 0.65mm pitch 25x25 array	High Temp FR4
3	Bottom Guide	Semitron MDS 100
4	Middle Guide	Semitron MDS 100
5	Floating Guide	Semitron MDS 100
6	Socket Lid Swivel 11mm IC	7075-T6 Aluminum Alloy
7	Compression Screw M10 w/handle	7075-T6 Aluminum Alloy
8	SBT Pin, SBT-BGA 0.5mm-0.8mm	
9	BGA625 IC 17x17mm, 0.65mm pitch 25x25 array	High Temp FR4
10	Compression Plate	7075-T6 Aluminum Alloy
11	#0-80 x 0.5, SH Cap Screw	Alloy Steel
12	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)
13	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
14	Backing Plate 17mm SBT	7075-T6 Aluminum Alloy
15	Floating Guide Spring	Alloy Steel (SS)
16	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled



Description: Socket Assy, Insulation Plate

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.

SBT-BGA-7008 Drawing



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Material: Material <not specified>
Finish:
Weight: 18.15

STATUS: Released

ENG: V. Panavala

FILE: SBT-BGA-7008 Dwg

SHEET: 4 OF 5

DRAWN BY: V. Panavala

DATE: 2/20/2013


REV. B

SCALE: 4:1

Rev	Date	Initials	Description
A	02/20/13	VP	Original
B	01/30/15	DH	Updated layout page
C	2/19/15	RP/MR	Changes to Guides per MP237 and MP238, P-P196A was P-P149A, R3200 was R2885, adjusted dowel pins

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.

 SBT-BGA-7008 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: 4:1
		FILE: SBT-BGA-7008 Dwg	DATE: 2/20/2013	