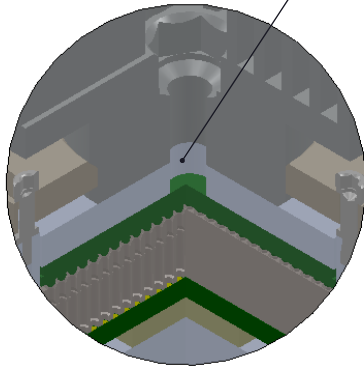


SBT-BGA DIRECT MOUNT, SOLDERLESS SOCKET FOR BURN-IN AND TEST APPLICATIONS

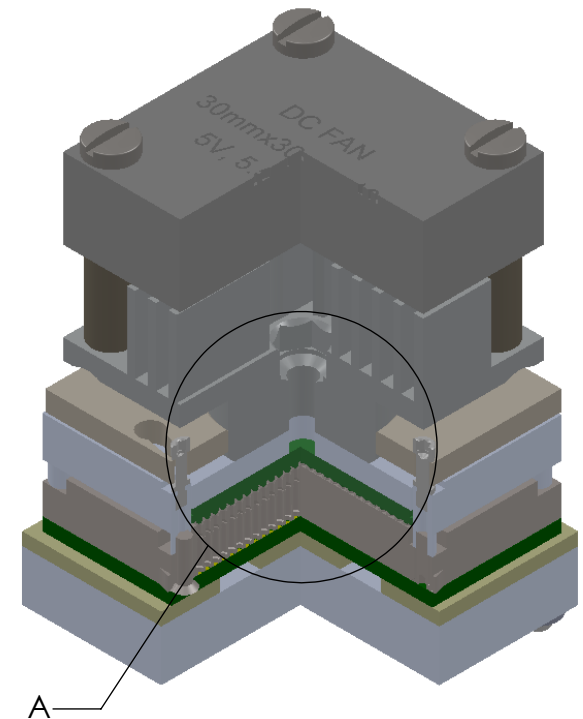
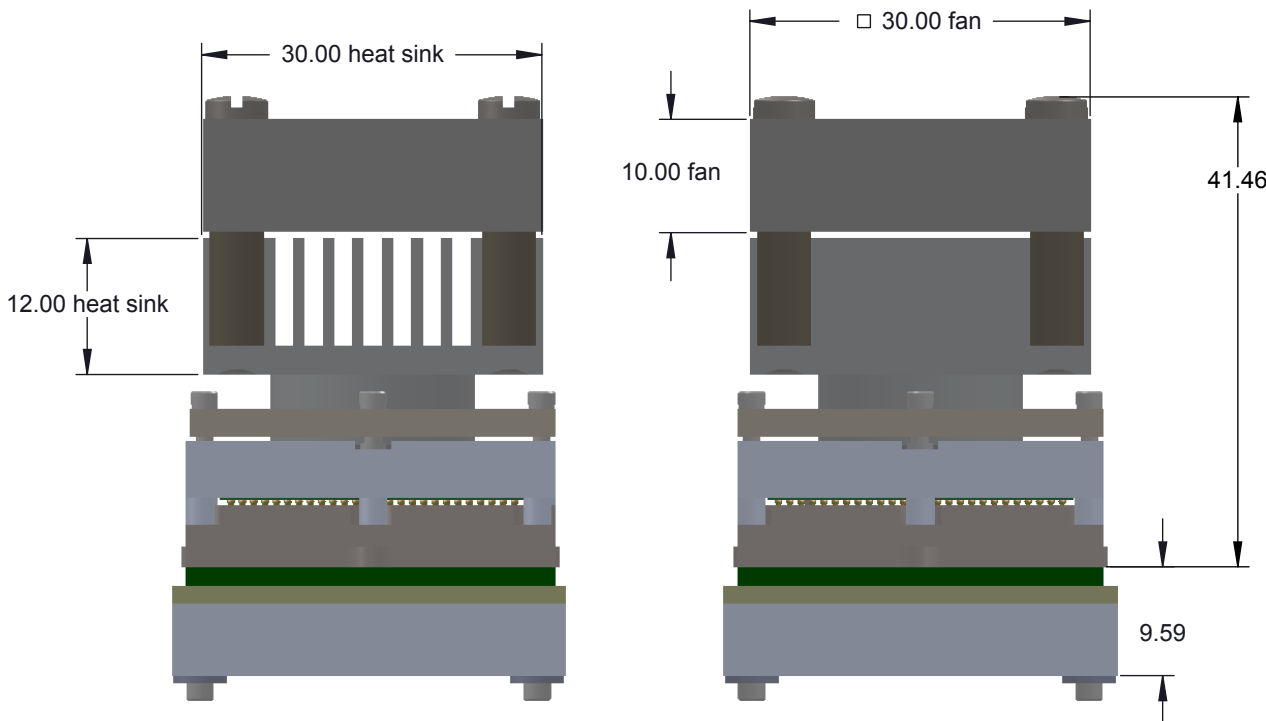
3mm dia hole for thermocouple



DETAIL A
SCALE 2 : 1

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 IC package co-planarity variations.

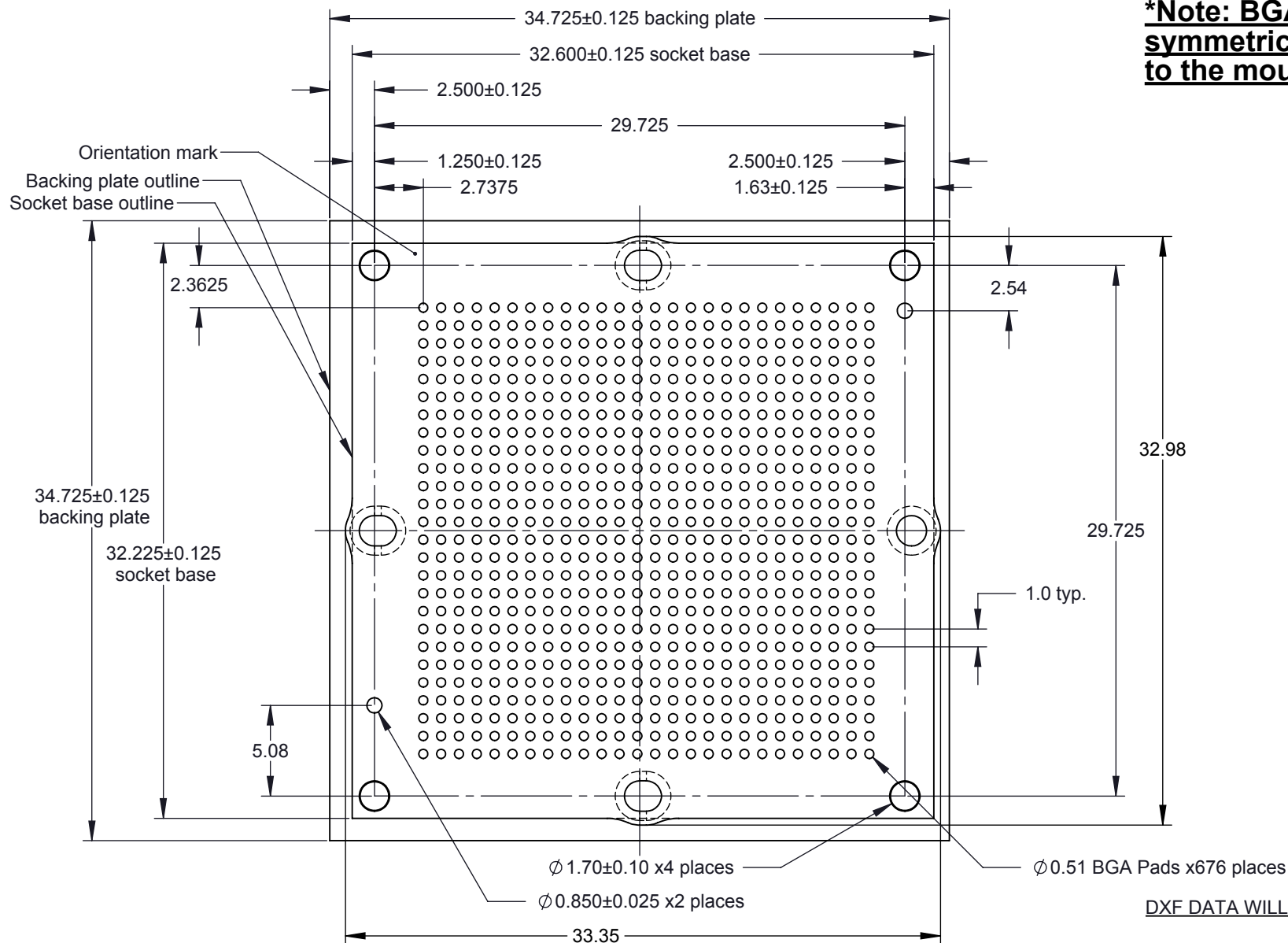


Description: Socket

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-6021 Drawing  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 85.02	STATUS: Released ENG: S. Huang FILE: SBT-BGA-6021 Dwg	SHEET: 1 OF 5 DRAWN BY: M. Raske DATE: 9/8/2012	REV. B SCALE: 1.5:1
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***Note: BGA pattern is not symmetrical with respect to the mounting holes.**


DXF DATA WILL BE PROVIDED

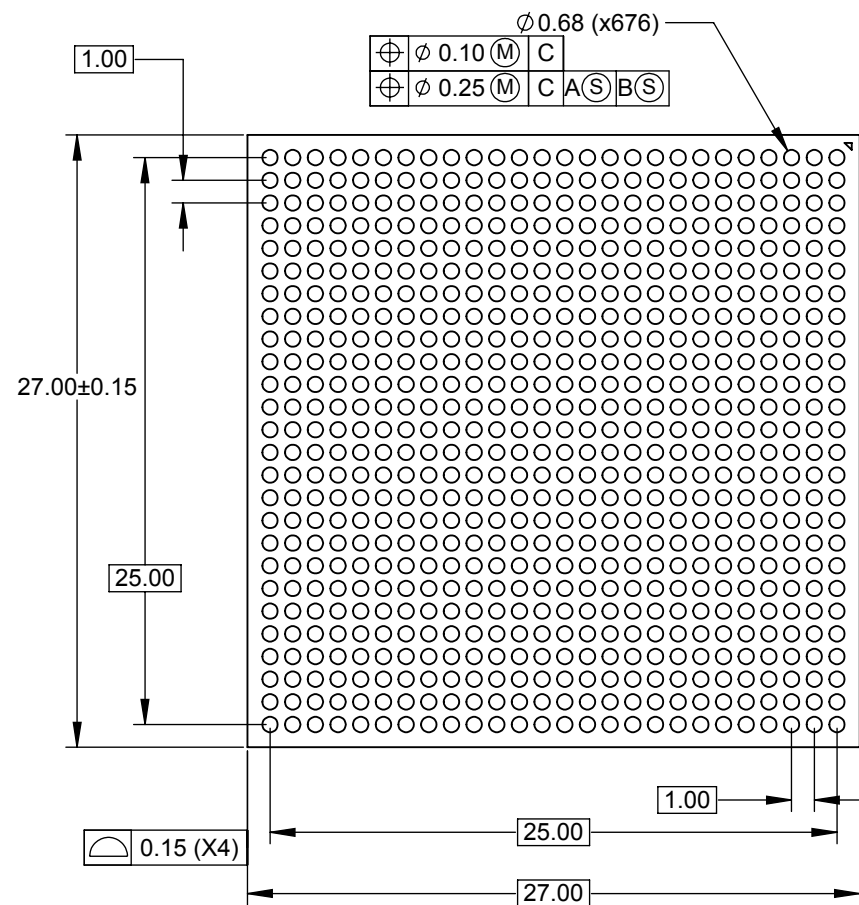
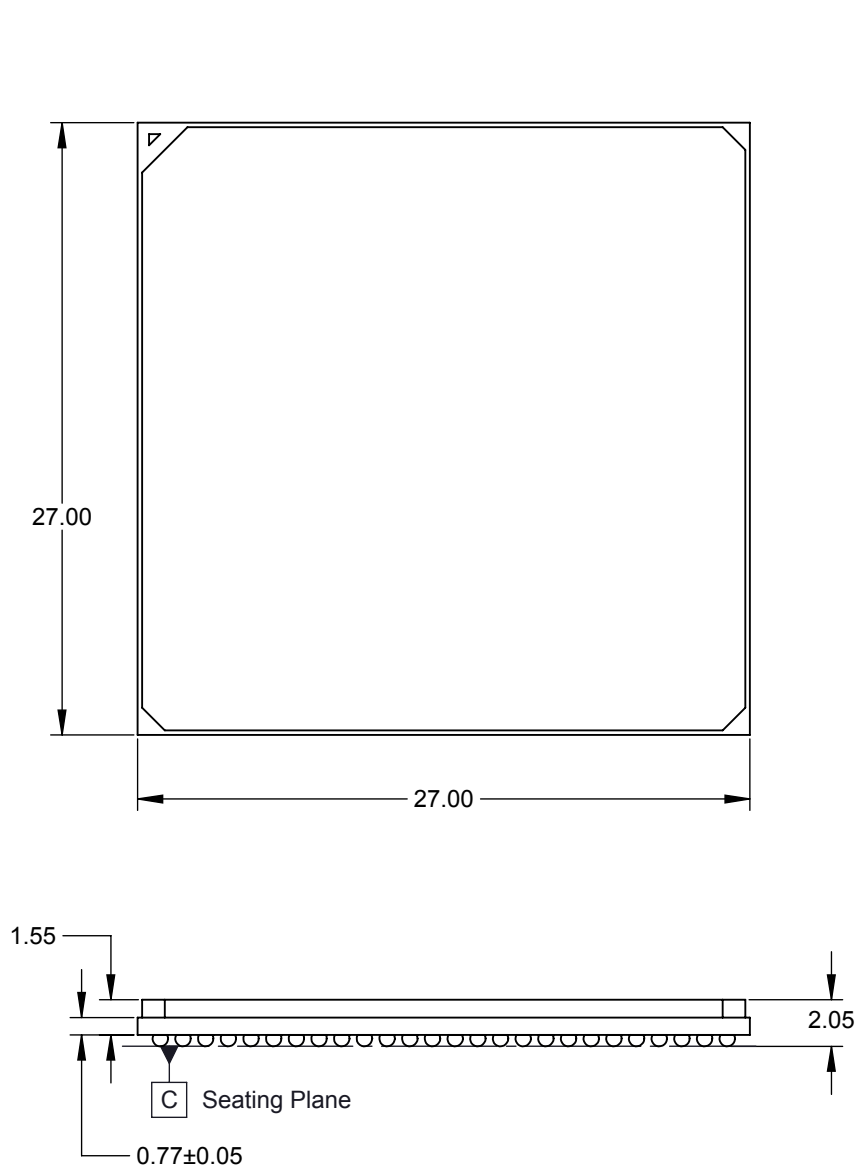
Target PCB Recommendations
Total thickness: 1.5mm min.
Plating: Gold or Solder finish

Description: Recommended PCB layout

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-6021 Drawing  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 85.02	STATUS: Released ENG: S. Huang FILE: SBT-BGA-6021 Dwg	SHEET: 2 OF 5 DRAWN BY: M. Raske DATE: 9/8/2012	REV. B SCALE: 3:1
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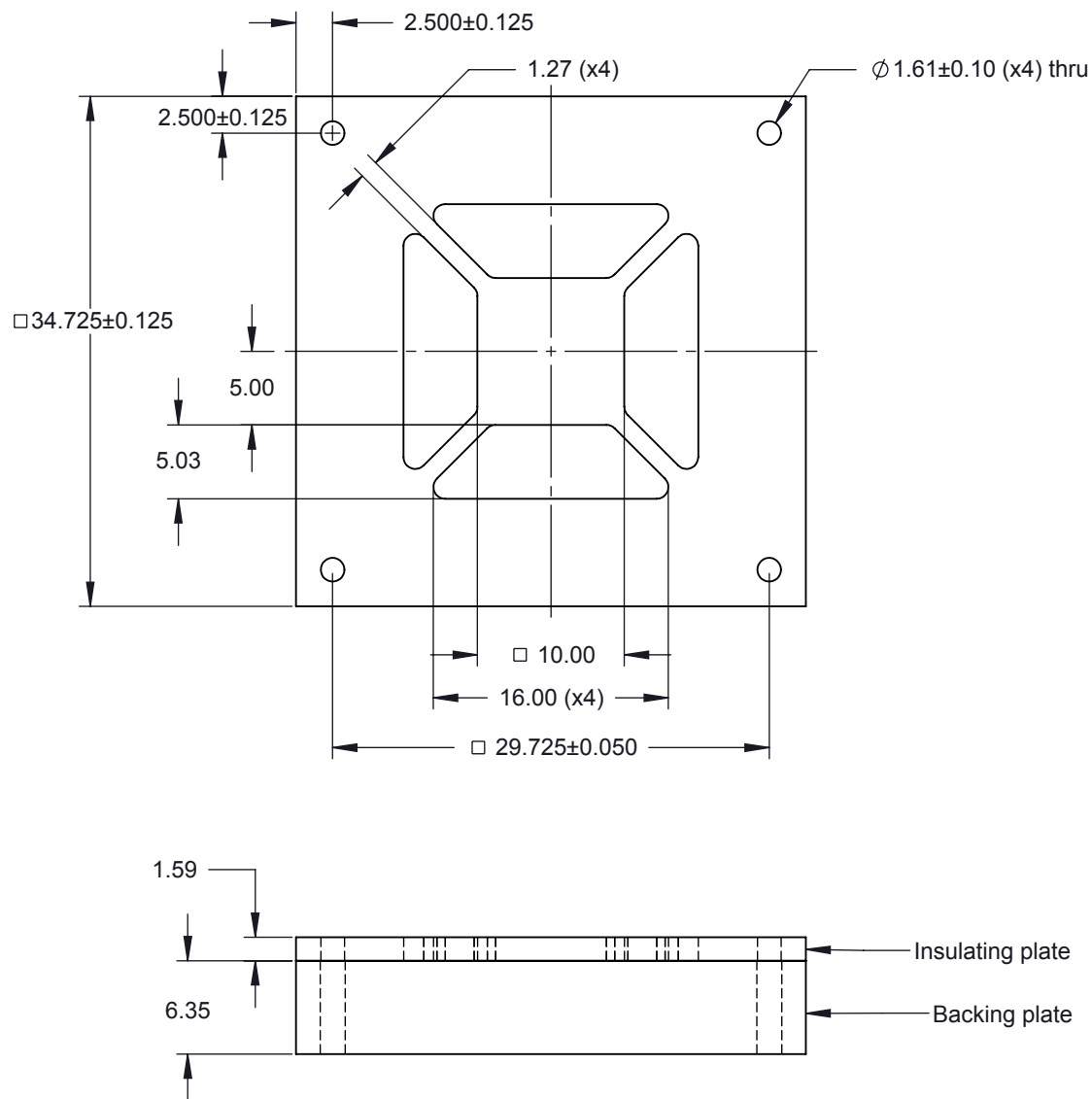


Description: BGA

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

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


SBT-BGA-6021 Drawing  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 85.02	STATUS: Released ENG: S. Huang FILE: SBT-BGA-6021 Dwg	SHEET: 3 OF 5 DRAWN BY: M. Raske DATE: 9/8/2012	REV. B SCALE: 3:1
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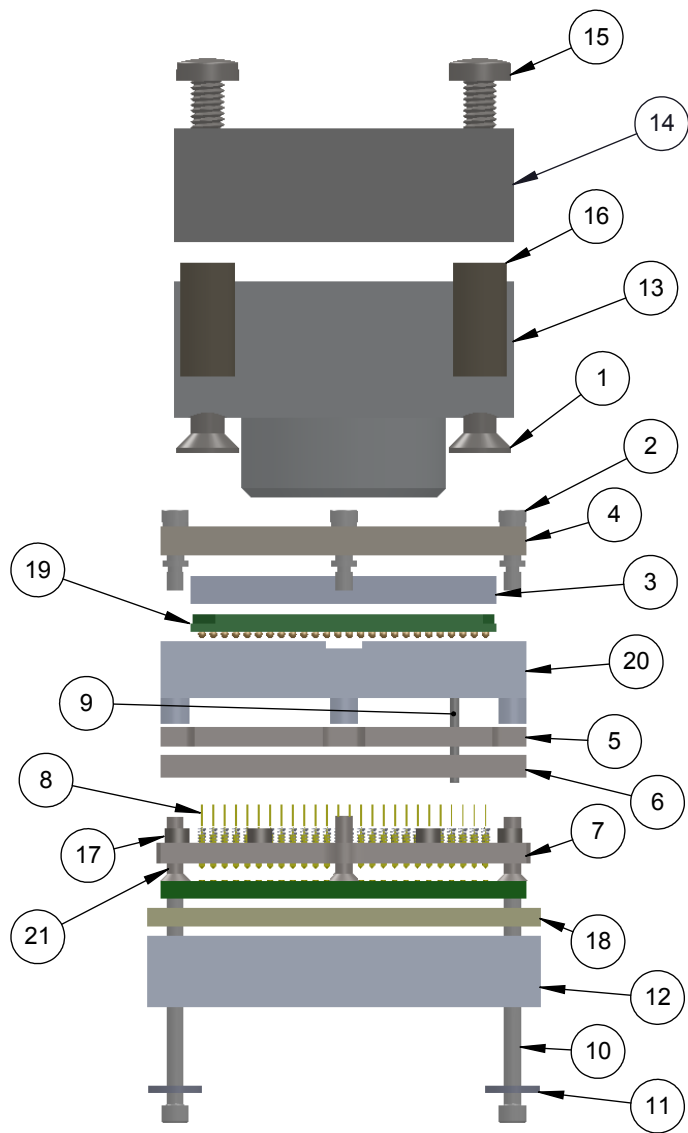


Description: Backing Plate

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-6021 Drawing  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 85.02	STATUS: Released ENG: S. Huang FILE: SBT-BGA-6021 Dwg	SHEET: 4 OF 5 DRAWN BY: M. Raske DATE: 9/8/2012	REV. B SCALE: 1:1
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ITEM NO.	DESCRIPTION	Material
1	flat hd phillips M3-0.5, x 5mm long SS, 90 deg Countersunk	
2	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)
3	Compression Plate, 27mm IC with TC access hole	7075-T6 Aluminum Alloy
4	Socket Lid, 32.225 X 32.225	7075-T6 Aluminum Alloy
5	Floating Guide 26x26 array 1mm pitch	PEEK Ceramic filled
6	Middle Guide 26x26 array 1mm pitch	PEEK Ceramic filled
7	Bottom Guide 26x26 array 1mm pitch	PEEK Ceramic filled
8	Pogo Pin, 1mm Pitch SBT BGA pin	
9	Dowel Pin, 1/32" dia, 7/16" Long, 18-8 SS	Chrome Stainless Steel
10	#0-80 X .75 LG. SOC HD CAP SCREW, 18-8 SS	Stainless Steel (18-8)
11	Washer, #0 x .025", Nylon	Nylon 6/6
12	SBT Ni plt backing plt 27mm IC	7075-T6 Aluminum Alloy
13	compression screw with heat sink M18x1.5 thread	7075-T6 Aluminum Alloy
14	DC fan 30mmx30mmx10mm, 5V, 5.5CFM	PP Copolymer
15	Cheese Head 18-8 M3 Size, 14 mm Length	Cast Stainless Steel
16	spacer round M3-0.5 female thread 10mm long Ni pltd brass	Brass
17	Floating Guide Spring	Alloy Steel (SS)
18	Insulation Plate 27mm IC	FR4
19	BGA676 device	FR4 Standard
20	Socket Base SBT 27x27mm Ni plated 0.375mm shift 1mm and 1.27 mm pitch IC	7075-T6 Aluminum Alloy
21	#0-80, 90 deg., head pin guide screw, Peek material 5.5715mm overall Length	PEEK unfilled
22	Test PCB BGA676C	FR4




SBT Pin 15:1 scale

Description: Socket detail, Pin

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.

Rev	Date	Initials	Description
A	09/08/12	MR	Original
B	03/12/15	DH	Updated layout page.

SBT-BGA-6021 Drawing		STATUS: Released		SHEET: 5 OF 5		REV. B	
 ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		Material: N/A Finish: N/A Weight: 85.02		ENG: S. Huang FILE: SBT-BGA-6021 Dwg		DRAWN BY: M. Raske DATE: 9/8/2012	
						SCALE: 3:2	