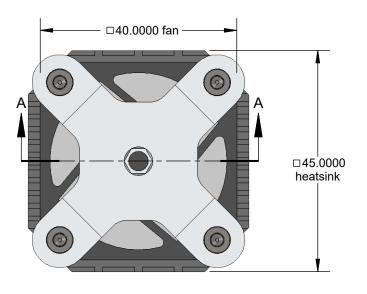
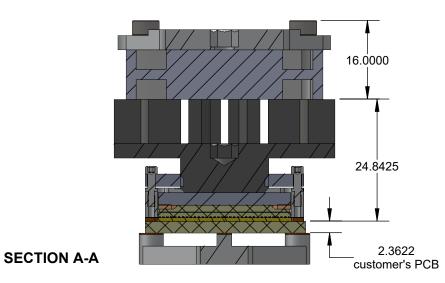
SG-BGA DIRECT MOUNT, SOLDERLESS SOCKET



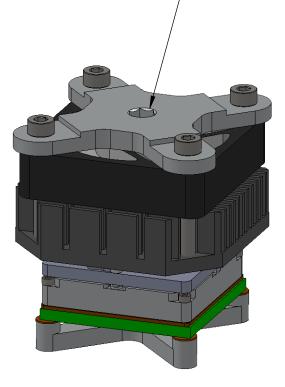
TOP VIEW



Features

- Directly mounts to target PCB (needs tooling holes) with hardware.
- High speed reliable elastomer connection.
- Minimum real estate required.
- Compression plate distributes forces evenly. Easily removable swivel lid.

Required torque is 135.6 Ncm (12 lbf-in) for BGA1089 124 Ncm (11 lbf-in) for BGA1000 Recommended Tool:TL-Torquedriver-02



Description: SG-BGA1089 Socket for 27x27mm 0.8mm pitch 33x33mm IC

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.

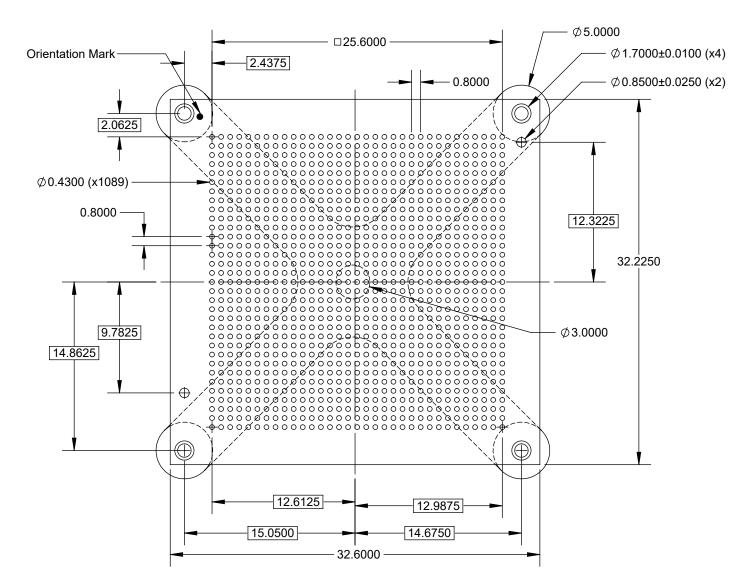


S	G-BGA-6446 Drawing
)	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com

Material: N/A
Finish: N/A Weight: 93.69

STATUS: Released	SHEET: 1 OF 5	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.3:1
FILE: SG-BGA-6446 Dwg	DATE: 08/09/2016	

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



Description: Recommended PCB Layout

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.

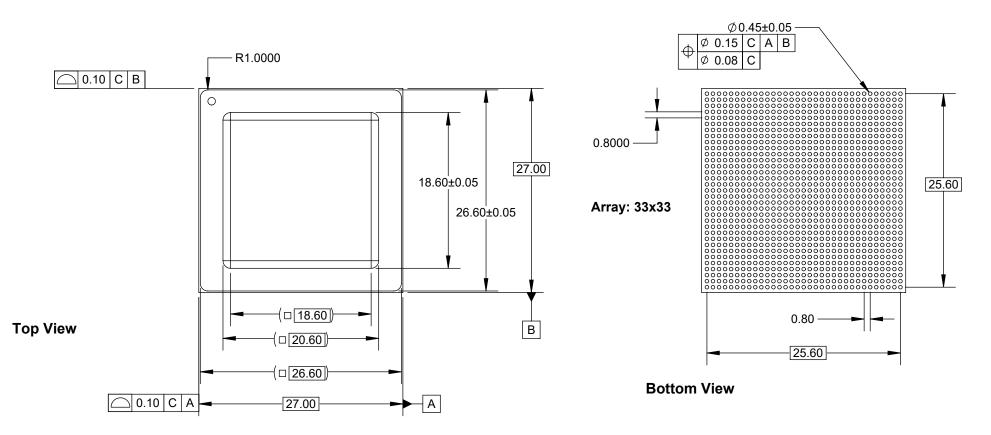
<u>Target PCB Recommendations</u> Total thickness: 3.175 mm min. Plating: Gold or Solder finish. PCB Pad height: Same or higher than solder mask.

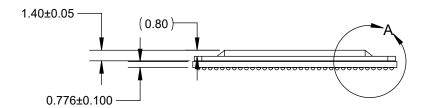
NOTE: Backing plate is required for thinner PCBs.

S	G-BGA-6446 Drawing		STATUS: Released	SHEET: 2 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 93.69	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1	
	www.ironwoodelectronics.com		FILE: SG-BGA-6446 Dwg	DATE: 08/09/2016	

Compatible BGA Spec

IRONWOOD PACKAGE CODE: BGA1089B

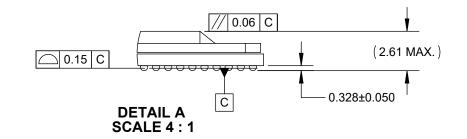




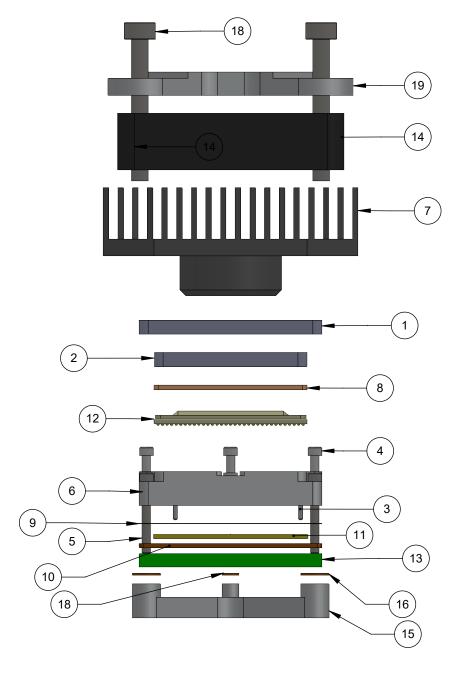
Side View

Description: Compatible BGA Spec

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.



SG-BGA-6446 Drawing	Finish: N/A Weight: 93.69	STATUS: Released	SHEET: 3 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 2:1
www.ironwoodelectronics.com		FILE: SG-BGA-6446 Dwg	DATE: 08/09/2016	



ITEM NO.	DESCRIPTION	Material
1	Socket Lid, 32.225 X 32.225	7075-T6 Aluminum Alloy
2	Compression Plate, 26.95 X 26.95	7075-T6 Aluminum Alloy
3	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
4	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
5	#0-80 x 0.5, SH Cap Screw	Alloy Steel
6	Socket Base	7075-T6 Aluminum Alloy
7	Compression Screw	7075-T6 Aluminum Alloy
8	IC frame	Ultem 1000
9	Ball Guide 27x27mm, 0.8mm, 33x33 array	Kapton Polyimide/Cirlex
10	Elastomer Guide 27mm IC	Kapton Polyimide/Cirlex/Ultem
11	0.75mm thick 0.1mm pitch 63 deg angled elastomer - 27.225mm square	SG Elastomer
12	Customer's device	FR4 Standard
13	Customer's PCB	FR4 Standard
14	Fan 40X10MM 12VDC 1.6W 9.9CFM	Material <not specified=""></not>
15	Backing Plate 27mm IC 5 post	7075-T6 Aluminum Alloy
16	Insulating washer, 5mm OD.	Kapton Polyimide/Cirlex
18	Insulating washer, 3mm OD.	Kapton Polyimide/Cirlex
18	Screw, M3 x 0.5mm, 25mm lg, Low Head Cap, SS	Stainless Steel (18-8)
19	Torquing bracket, 32mm hole centers, 5mm hex	7075-T6 Alumium Alloy

Description: Socket Assem and Detail

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

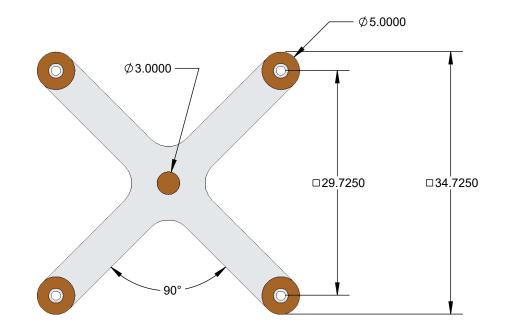
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

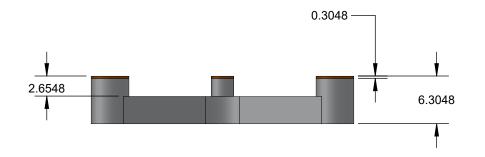


SG	B-BGA-6446 Drawing
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com

Material: N/A Finish: N/A Weight: 93.69 m

STATUS: Released	SHEET: 4 OF 5	REV. A
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 1.5:1
FILE: SG-BGA-6446 Dwg	DATE: 08/09/2016	





Description: Backing plate

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.

SG-BGA-6446 Drawing		Material: N/A	STATUS: Released	SHEET: 5 OF 5	REV. A
8	©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Weight: 93.69	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 2:1
			FILE: SG-BGA-6446 Dwg	DATE: 08/09/2016	