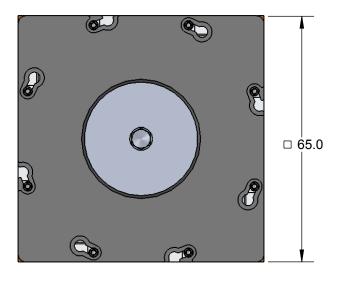
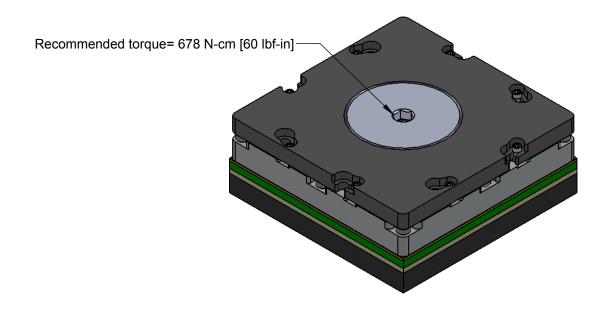
SG-BGA DIRECT MOUNT, SOLDERLESS SOCKET

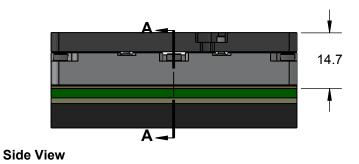
Features

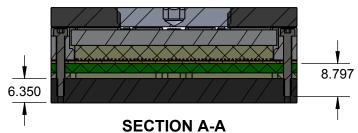
- Directly mounts to target PCB (needs tooling holes) with hardware
 High speed, reliable Elastomer connection
 Minimum real estate required
 Compression plate distributes forces evenly
 Ball guide prevents over compression of elastomer
 Easily removable swivel socket lid



Top View







Description: SG-BGA skt 52.5x52.5mm 1mm 51x51 array

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.

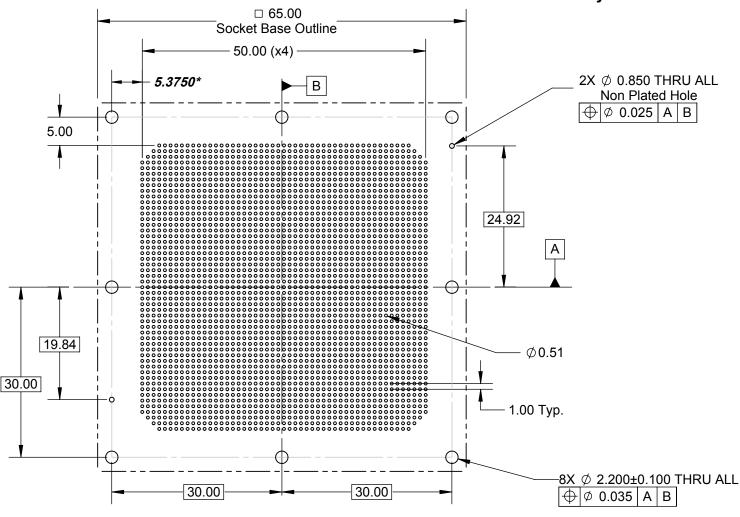
	SG-BGA-6422 Drawing	
•		Ironwood Electronics, Inc Tele: (800) 404-0204 www.ironwoodelectronics.c

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

Material: N/A Finish: N/A Weight: 240.83

STATUS: Released	SHEET: 1 OF 4	REV. A
ENG: R. Patil	DRAWN BY: M. Raske	SCALE: 1:1
FILE: SG-BGA-6422 Dwg	DATE: 04/16/2015	

*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.

Target PCB Recommendations Total thickness: 2mm min. Plating: Gold or Solder finish

PCB Pad height: Same or higher than solder mask

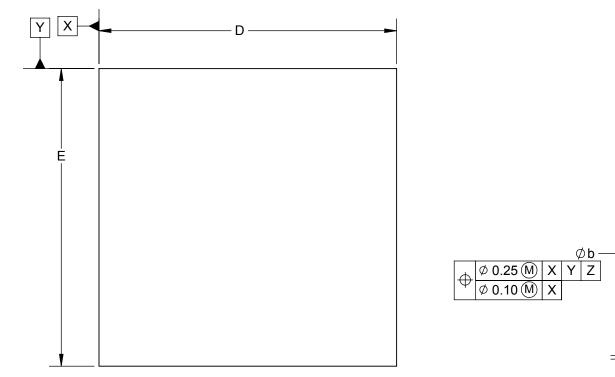
SG-BGA-6422 Drawing

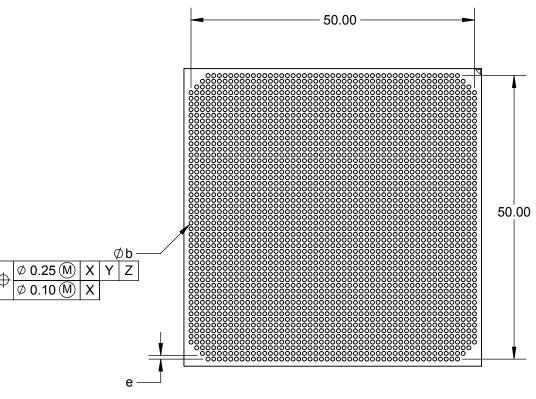


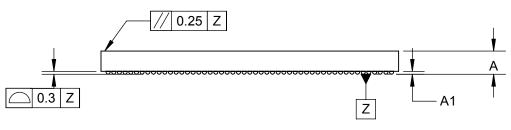
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 240.83

STATUS: Released	SHEET: 2 OF 4	REV. A
ENG: R. Patil	DRAWN BY: M. Raske	SCALE: 3:2
FILE: SG-BGA-6422 Dwg	DATE: 04/16/2015	

Ironwood Package Code: BGA1936B







DIM	Minimum	Maximum
Α	3.61	4.01
A1	0.40	0.60
b	0.50	0.70
D	52.50 BSC	
E	52.50 BSC	
е	1.00 BSC	
ARRAY	51 x 51	
PIN COUN	2577	

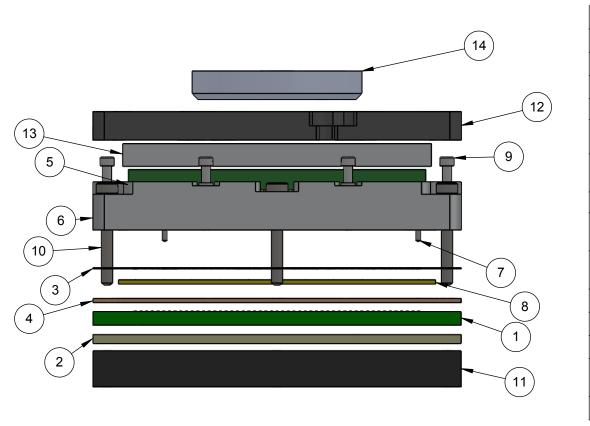
- 1. Dimensions are in millimeters.
- Interpret dimensions and tolerances per ASME Y14.5M-1994.
 Dimension b is measured at the maximum solder ball diameter, parallel to datum plane Z.
 Datum Z (seating plane) is defined by the spherical crowns of the solder balls.
 Parallelism measurement shall exclude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

Description: Compatible BGA

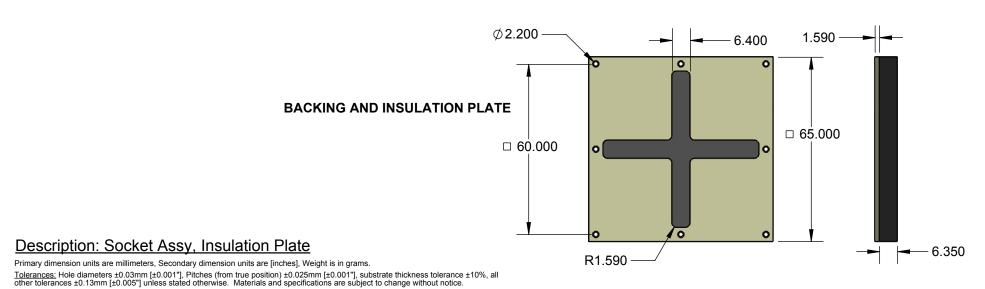
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

SG-BGA-6422 Drawing	Finish: N/A Weight: 240.83	STATUS: Released	SHEET: 3 OF 4	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: R. Patil	DRAWN BY: M. Raske	SCALE: 3:2
www.ironwoodelectronics.com		FILE: SG-BGA-6422 Dwg	DATE: 04/16/2015	



ITEM NO.	Description	Material
1	PCB 51x51 array 1mm pitch	FR4
2	Insulation Plate 55mm	FR4 High temp
3	Ball Guide 51x51 array 1mm pitch	Kapton Polyimide/Cirlex
4	Elastomer Guide 55mm IC	Ultem 1000
5	BGA device 52.5x52.5mm, 51x51 array 1mm pitch	FR4 Standard
6	Swivel Socket Base 52.5x52.5mm IC 7mm ht	7075-T6 Aluminum Alloy
7	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
8	0.75mm thick 0.1mm pitch 63 deg angled elastomer	SG Elastomer
9	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
10	Screw, M2x0.4 x 16mm, Cap, SS	Stainless Steel (18-8)
11	Backing Plate 55mm IC	7075-T6 Aluminum Alloy
12	Socket Lid for 55mm IC	7075-T6 Aluminum Alloy
13	Compression Plate for 55mm IC	7075-T6 Aluminum Alloy
14	Compression Screw, M30	7075-T6 Aluminum Alloy



SG-BGA-6422 Drawing

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

Material: N/A Finish: N/A Weight: 240.83

STATUS: Released	SHEET: 4 OF 4	REV. A
ENG: R. Patil	DRAWN BY: M. Raske	SCALE: 3:2
FILE: SG-BGA-6422 Dwg	DATE: 04/16/2015	