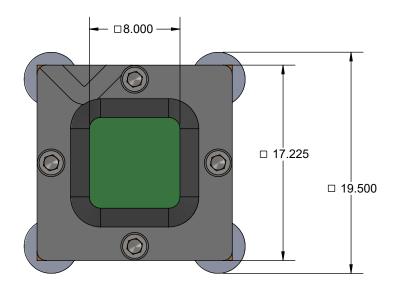
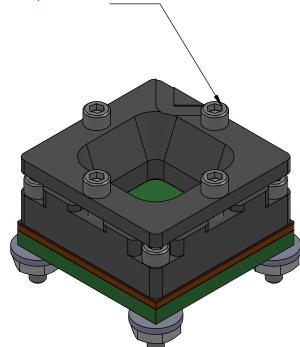
GHz BGA Socket - Direct mount, solderless

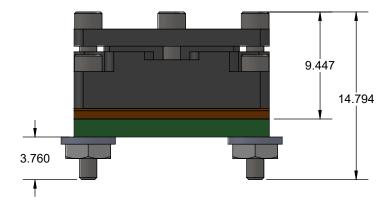


Features

- · 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
- Open top compression plate

Required torque = 0.715 N-cm [1 ozf-in] per screw Contact Ironwood for proper torquedriver to acheive this torque value

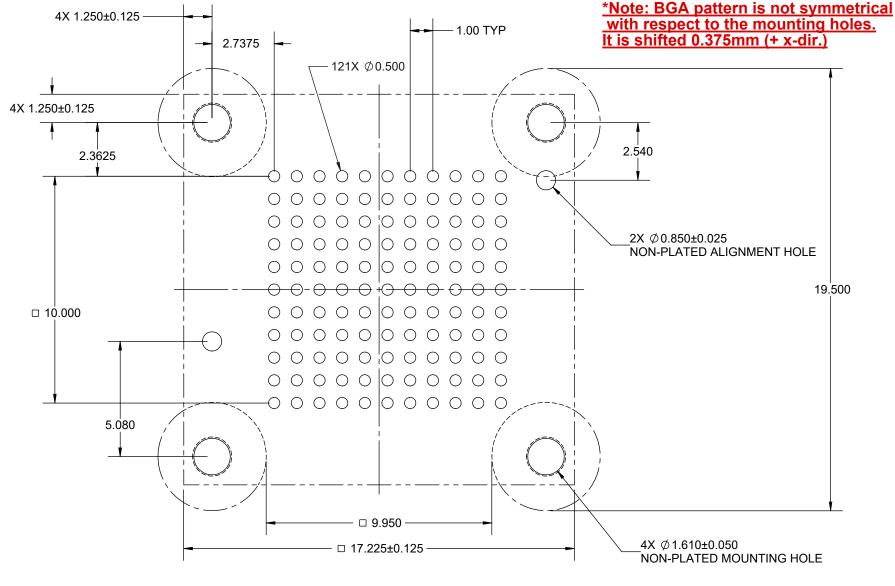




Description: SG-BGA 12mm IC, 11x11 array, 1mm pitch w/ open top lid

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) ±0.0254mm [±0.001"], 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-6457 Specification	Finish: N/A	STATUS: Quality Approval Pending	SHEET: 1 OF 4	REV01
©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 3:1
www.ironwoodelectronics.com		FILE: SG-BGA-6457 Dwg	DATE: 03/27/2018	SCALE: 3:1



Target PCB Recommendations

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

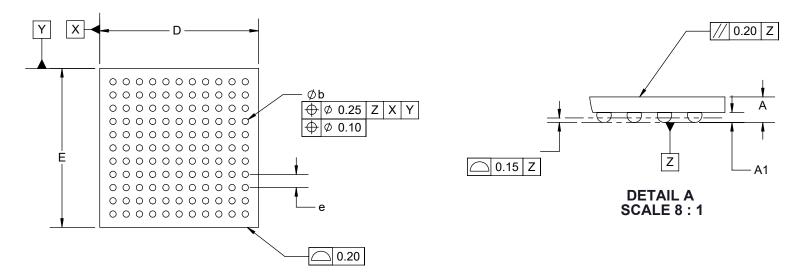
Description: Recommended PCB Layout

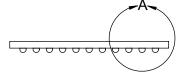
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0254mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

NOTE: Steel backing plate may be required based on end user's application

SG-BGA-6457 Drawing	Finich: N/A	STATUS: Quality Approval Pending	SHEET: 2 OF 4	REV01
©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 6:1
www.ironwoodelectronics.com		FILE: SG-BGA-6457 Dwg	DATE: 03/27/2018	

Ironwood Package Code: BGA121C





Array 11x11

DIM	MIN	MAX	
Α		2.50	
A1	0.20		
b		0.70	
D	12.00 BSC		
Е	12.00 BSC		
е	1.00	BSC	

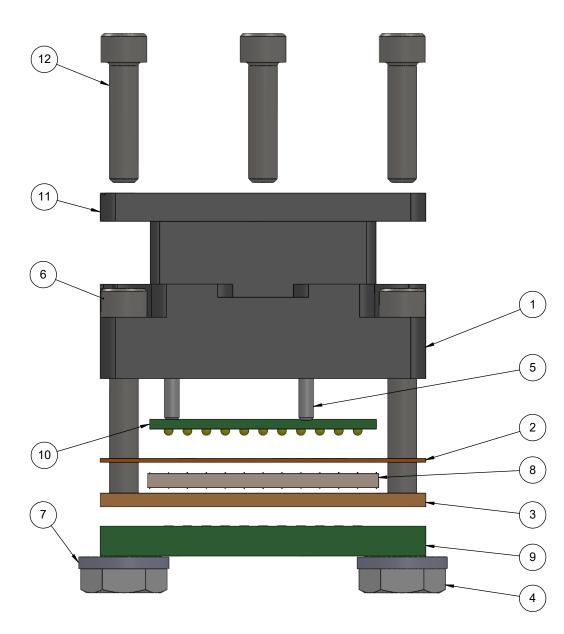
Dimensions are in millimeters.

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

Description: Compatible Device

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) ±0.0254mm [±0.001"], 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-6457 Drawing	SG-BGA-6457 Drawing Material: N/A		SHEET: 3 OF 4	REV01
©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204	s, Inc. Finish: N/A Weight: 6.03	ENG: J. Vavra	DRAWN BY: M. Raske	SCALE: 3.5:1
www.ironwoodelectronic	5	FILE: SG-BGA-6457 Dwg	DATE: 03/27/2018	



ITEM NO.	DESCRIPTION	Material
1	GHz Socket Base 12mm IC	7075-T6 Aluminum Alloy
2	Ball Guide 11x11 array, 1.0mm pitch	Kapton Polyimide/Cirlex
3	Elastomer Guide	Kapton Polyimide/Cirlex/Ultem / Kapton Polyimide or Cirlex
4	Nut, #0-80, SS	Stainless Steel (18-8)
5	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
6	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
7	Washer, #0 x .025", Nylon	Nylon 6/6
8	0.75mm thick 0.1mm pitch 63 deg angled elastomer	Silicon Rubber
9	Test PCB	Material <not specified=""></not>
10	Test Chip	Material <not specified=""></not>
11	Open Top Lid for 12x12mm IC	7075-T6 Aluminum Alloy
12	12 #0-80 X .25 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	

Description: Socket, Backing Plate Detail

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) ±0.0254mm [±0.001"], 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-6457 Drawing		Finish: N/A	STATUS: Quality Approval Pending	SHEET: 4 OF 4	REV01
©2016 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	ENG: J. Vavra		DRAWN BY: M. Raske	SCALE: 5:1	
		Weight. 0.00	FILE: SG-BGA-6457 Dwg	DATE: 03/27/2018	SCALE: 5:1