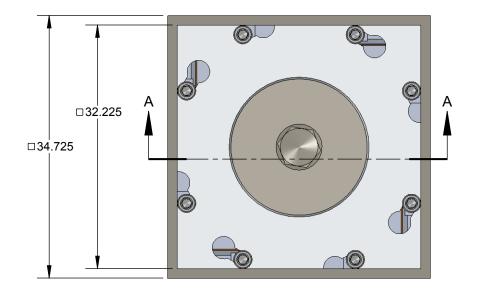
# GHz BGA Socket - Direct mount, solderless

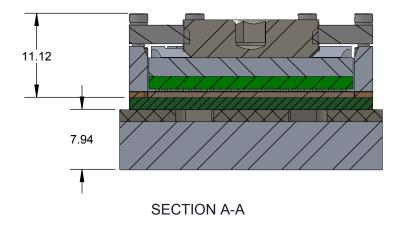


## Features

- Directly mounts to target PCB.
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Easily removable socket lid
- Ball guide prevents over compression of elastomer

Recommended

### TOP VIEW



# Torque: 10 in-lb

### Description: SG BGA socket for 27mm 0.8mm pitch 32x32 array BGA package

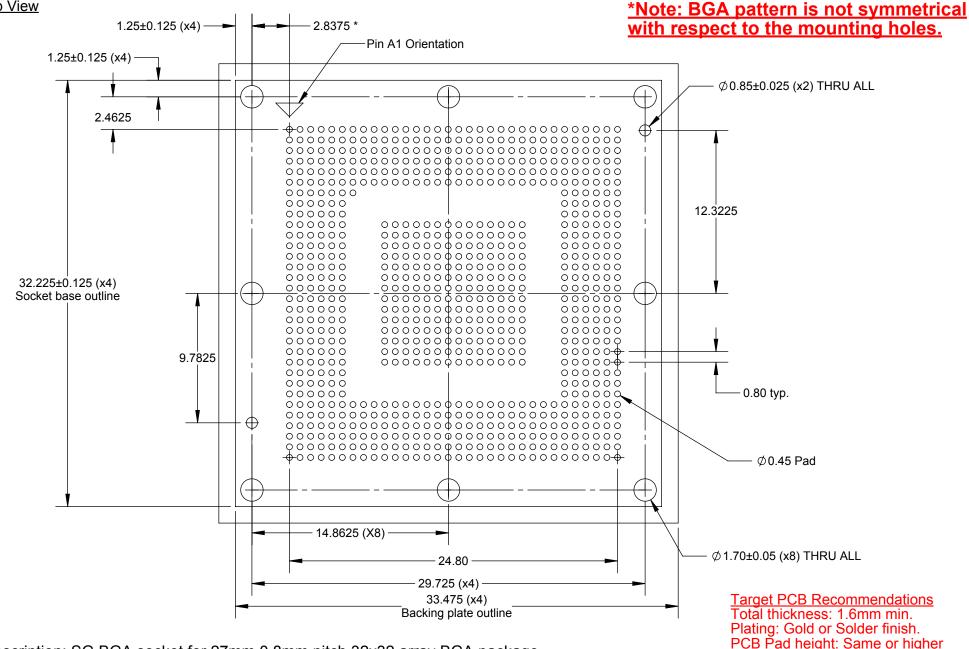
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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-6398 Drawing	Finish: N/A Weight: 47.55	STATUS: Released	SHEET: 1 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com		ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 2:1
		FILE: SG-BGA-6398 Dwg	DATE: 12-12-2013	



Top View



than solder mask.

### Description: SG BGA socket for 27mm 0.8mm pitch 32x32 array BGA package

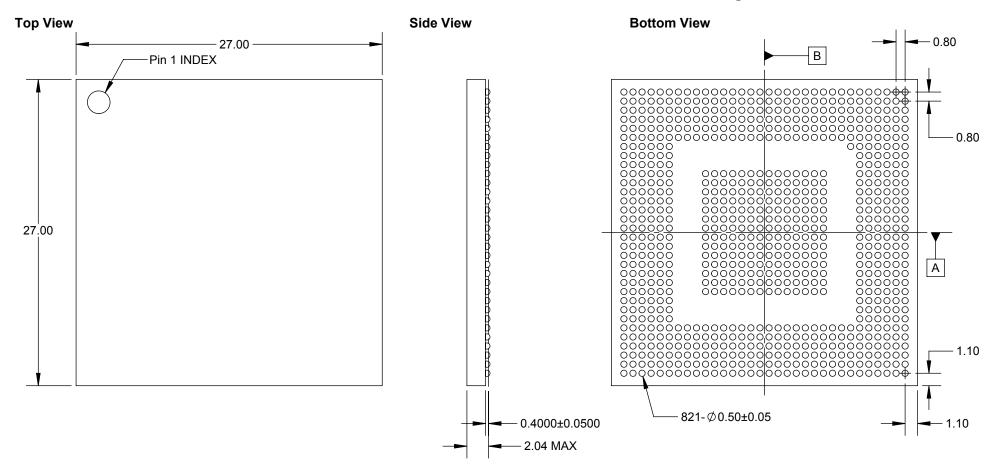
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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-6398 Drawing	Finish: N/A Weight: 47.55	STATUS: Released	SHEET: 2 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 3.5:1
www.ironwoodelectronics.com		FILE: SG-BGA-6398 Dwg	DATE: 12-12-2013	

### Ironwood Package Code: BGA821A

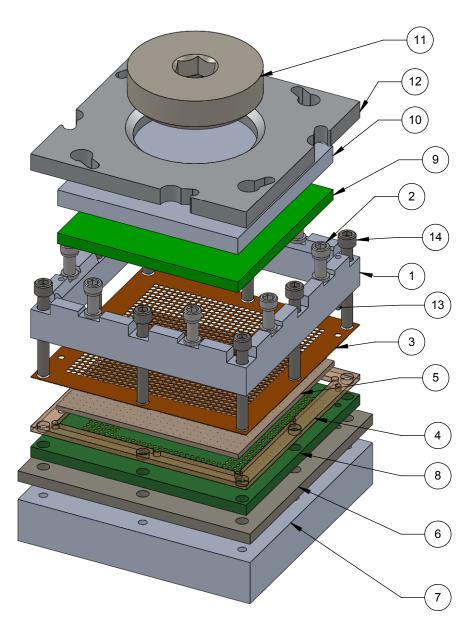
DATE: 12-12-2013



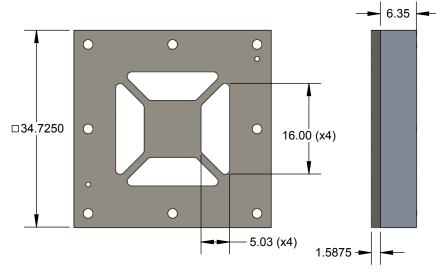
### Description: Compatible BGA 1. Dimensions are in millimeters. Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. 2. Interpret dimensions and tolerances per ASME Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all Y14.5-1994. other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice SG-BGA-6398 Drawing STATUS: Released SHEET: 3 OF 5 REV. A Material: N/A Finish: N/A Ironwood Electronics, Inc. SCALE: 3:1 ENG: S. Faiz DRAWN BY: M. Raske Tele: (800) 404-0204 Weight: 47.55

FILE: SG-BGA-6398 Dwg

www.ironwoodelectronics.com



ITEM NO.	IO. DESCRIPTION	
1	GHz Socket Base 27mm w/ 8 mounting holes	1
2	#0-80 Shoulder Screw, 0.090" thread length	8
3	Ball Guide 0.8mm 32x32 array	1
4	Elastomer Guide 27mm IC 8 mounting holes	1
5	0.75mm thick 0.1mm pitch 63 deg angled elastomer - 27.225mm square	
6	insulation plate 8 mounting holes 27mm package	1
7	Backing Plate, 34.725 X 34.725	1
8	Test PCB 30x30 array 0.8mm pitch	1
9	Test Chip	1
10	10 Compression Plate, 26.95 X 26.95	
11	Compression Screw, M18	
12	GHz Socket Lid 27mm IC with 8 mounting holes	
13	Dowel Pin, 1/32" x 3/16", SS	2
14	#0-80 x 0.5, SH Cap Screw	8

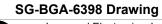


### Insulation plate and Backing plate (Not to Scale)

: N/A	STATUS: Released	SHEET: 4 OF 5	REV. A
I/A 47.55	ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 2:1
-1.00	FILE: SG-BGA-6398 Dwg	DATE: 12-12-2013	

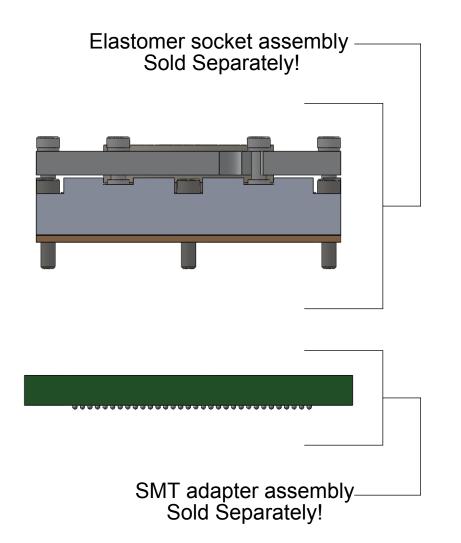
### Description: Socket sub components

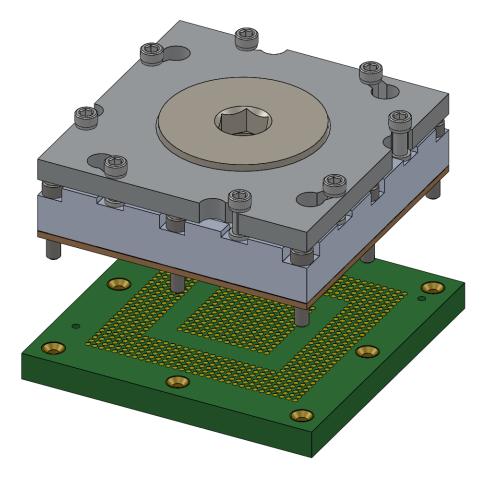
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances</u>: Hole diameters  $\pm 0.03$ mm [ $\pm 0.001^{\circ}$ ], Pitches (from true position)  $\pm 0.025$ mm [ $\pm 0.001^{\circ}$ ], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm 0.13$ mm [ $\pm 0.005^{\circ}$ ] unless stated otherwise. Materials and specifications are subject to change without notice.



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

Material: N nc. Finish: N/A Weight: 47





### Description: with SMT adapter

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.

S	G-BGA-6398 Drawing	Material: N/A	STATUS: Released	SHEET: 5 OF 5	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Finish: N/A Weight: 47.55	ENG: S. Faiz	DRAWN BY: M. Raske	SCALE: 2.5:1	
			FILE: SG-BGA-6398 Dwg	DATE: 12-12-2013	