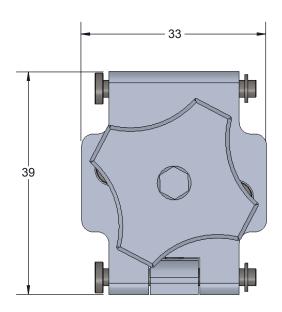
# GHz BGA Socket - Direct mount, solderless



#### **Features**

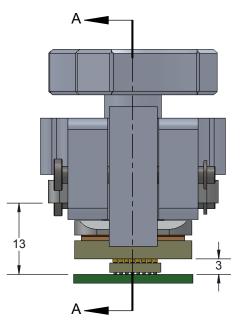
- Mounts to land socket that plugs into Giga-snaP part soldered to target PCB High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Ball guide prevents over compression of elastomer

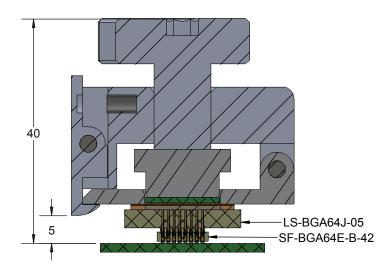
### **User Instructions**

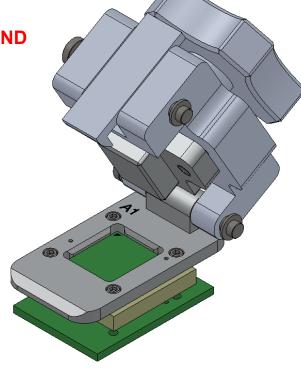
- Attach socket to LS-BGA64J-05
- Place chip into socket
- Apply 14.4 in-oz torque to compression screw

Plug assembly into SF-BGA64E-B-42 soldered onto target PCB

\*NOTE REQUIRED PARTS LS-BGA64J-05 AND SF-BGA64E-B-42 SOLD SEPERATELY







**SECTION A-A** 

## Description: CG-BGA64 for LS-BGA64J-05

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

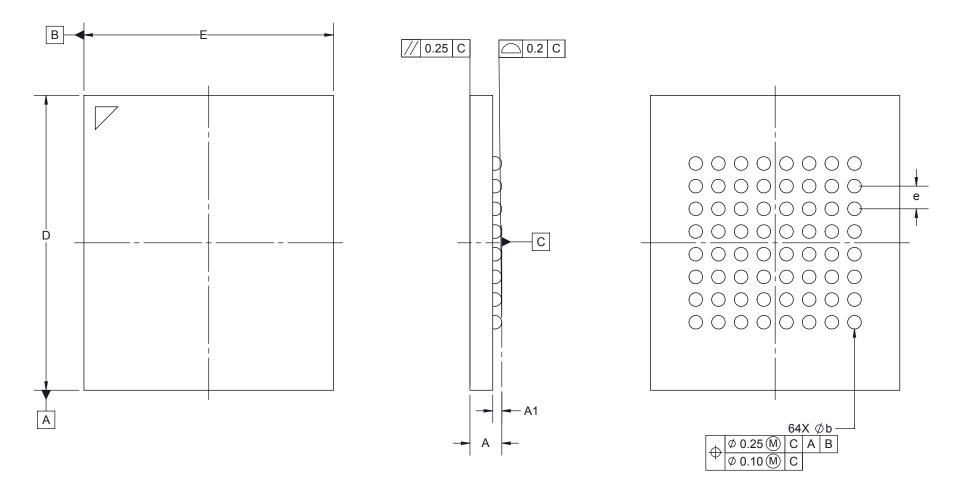
Tolerances: Hole diameters ±0.0254mm [±0.001"], Pitches (from true position) ±0.0762mm [±0.003"], substrate thickness tolerance ±10%, all other tolerances ±0.127mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

	CG-BGA-4019 Drawing		
	4	Ironwood Electronics, Inc Tele: (800) 404-0204 www.ironwoodelectronics.c	
		www.ironwoodelectronics.c	

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

Material: N/A Finish: N/A Weight: 64.97

STATUS: Released	SHEET: 1 OF 3	REV. A
ENG: B. Schatz	DRAWN BY: M. Raske	SCALE: 3:2
FILE: CG-BGA-4019 Dwg	DATE: 3/20/2014	



## **IRONWOOD COMPATIBLE PACKAGE: BGA64N**

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 C.
- Datum C (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.

<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.

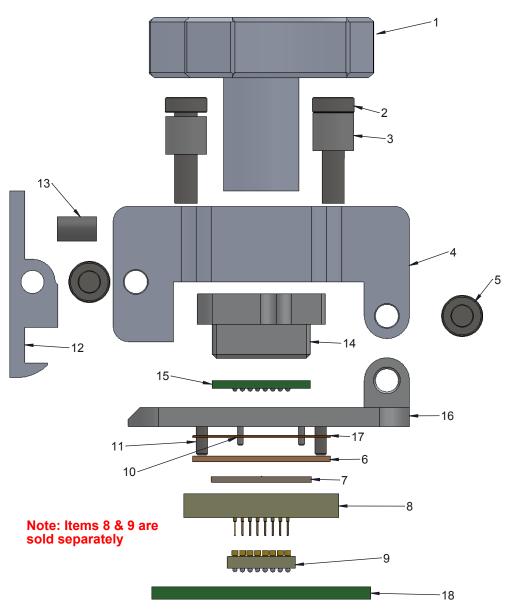
Α	-	3.5
A1	0.4	0.6
b	0.5	0.7
D	12.8	13.2
Е	10.8	11.2
е	1.0	

MAX

MIN

DIM

CG-BGA-4019 Drawing	Weight: 64.97	STATUS: Released	SHEET: 2 OF 3	REV. A
Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: B. Schatz	DRAWN BY: M. Raske	SCALE: 6:1
www.ironwoodelectronics.com		FILE: CG-BGA-4019 Dwg	DATE: 3/20/2014	



ITEM NO.	DESCRIPTION	Material
1	M10 Comression Screw	7075-T6 Aluminum Alloy
2	Screw, M3 x 12mm, Low Head Cap, SS	18-8 Stainless Steel
3	Spring Clamshell lid assembly	Steel Music Wire
4	Clam shell lid for 17mm IC	7075-T6 Aluminum Alloy
5	Hinge Pin and Snap Ring, 3mm OD, 25mm long, SS	Stainless Steel (ferritic)
6	Elastomer Guide 13x13mm	Ultem
7	0.75mm thick 0.1mm pitch 63 deg angled elastomer	Silicon Rubber
8	Male Land Socket BGA64 13mm 8x8 array 1.0mm pitch	N/A
9	Female Giga-snaP BGA64 9x9mm 8x8 array 1.0mm pitch	N/A
10	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
11	#0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
12	Clamshell Latch	7075-T6 Aluminum Alloy
13	Precision Compression Spring, Zinc-Plated Music Wire, 1/2" Length, .12" OD, .016" Wire	Zinc Plated Music Wire
14	CG Compression Plate 13mm	7075-T6 Aluminum Alloy
15	BGA64 13x11mm 8x8 array 1.0mm pitch	FR4 High temp
16	Clamshell Socket Base 13mm IC	7075-T6 Aluminum Alloy
17	Ball Guide BGA64 13mm 8x8 array 1.0mm pitch	Kapton Polyimide/Cirlex
18	Target PCB BGA64 13mm 8x8 array 1.0mm pitch	FR4 High temp

# Description: Socket, Backing Plate 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.

			Description
Α	2/13/14	BJS	Original

(	CG-BGA-4019	Drawin
	Ironwood Ele	ectronics.

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 64.97

STATUS: Released	SHEET: 3 OF 3	REV. A
ENG: B. Schatz	DRAWN BY: M. Raske	SCALE: 2:1
FILE: CG-BGA-4019 Dwg	DATE: 3/20/2014	