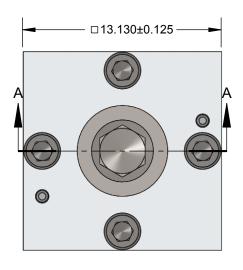
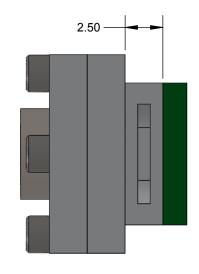
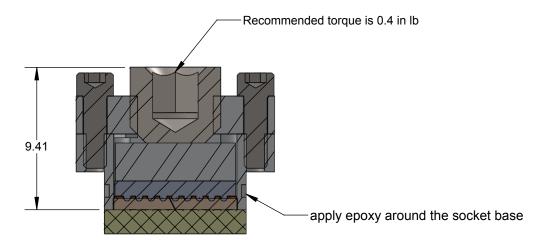
GHz BGA Socket - Epoxy mount, solderless





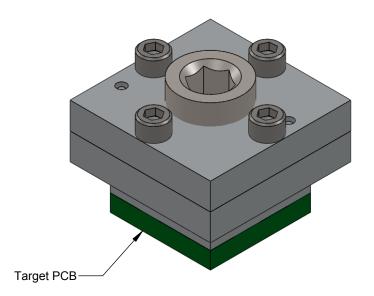
SIDE VIEW

TOP VIEW



Features

- Directly mounts to target PCB. High speed, reliable Elastomer connection Minimum real estate required Compression plate distributes forces evenly Easily removable socket lid



SECTION A-A

Description: Epoxy Mount Socket for 8mm x 8mm 9x9 0.8mm pitch BGA

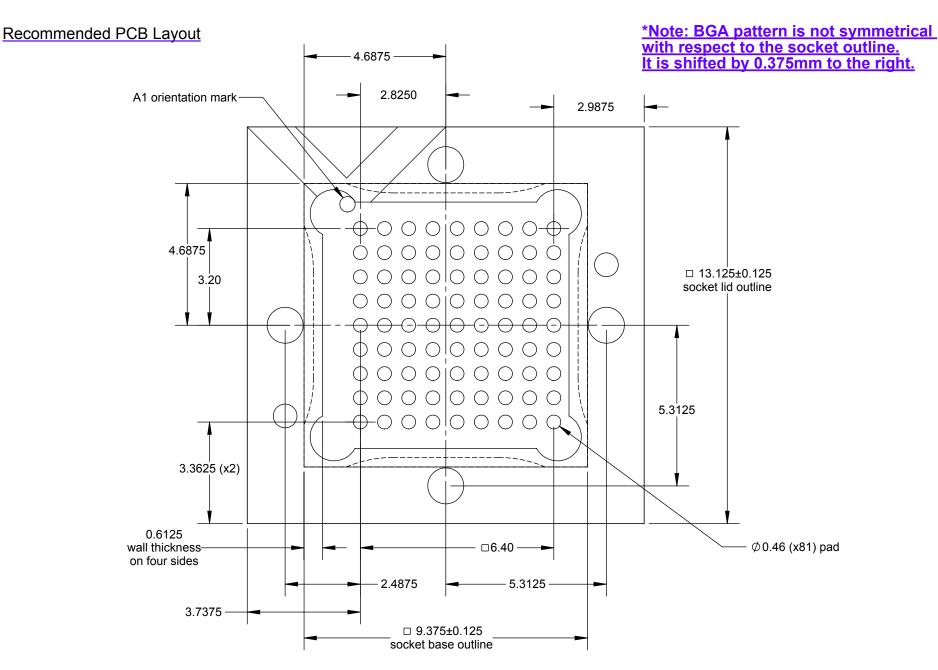
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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.

3G-BGA-0390 D		
	Ironwood Elect	
T	Tele: (800) 4 www.ironwoodele	
	•	

SG-RGA-6390 Drawing Material: N/A Finish: N/A tronics, Inc. Weight: 3.85 404-0204 lectronics.com

STATUS: Released	SHEET: 1 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 4:1
FILE: SG-BGA-6390 Dwg	DATE: 09-09-2013	



Description: Recommended PCB Layout

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

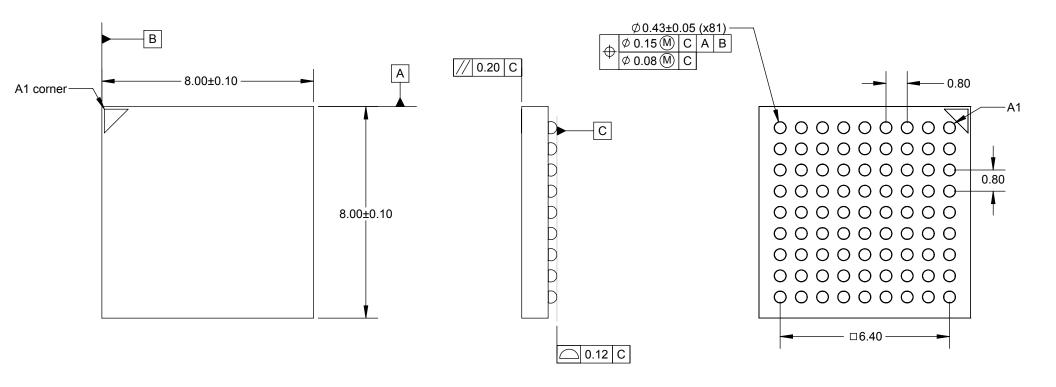
Tolerances: Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

SG-BGA-6390 Drawing

Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com Material: N/A Finish: N/A Weight: 3.85

STATUS: Released	SHEET: 2 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 8:1
FILE: SG-BGA-6390 Dwg	DATE: 09-09-2013	

Ironwood Package Code BGA81G



Dimensions are in millimeters.

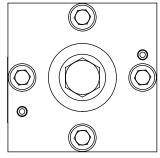
- 1. Interpret dimensions and tolerances per ASME Y14.5M-1994.
- 2. Dimension b is measured at the maximum solder ball diameter, parallel to datum plane C.
- 3. Datum C (seating plane) is defined by the spherical crowns of the solder balls.
- 4. Parallelism measurement shall exclude any effect of mark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

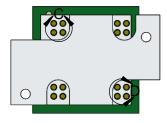
Description: Compatible BGA IC

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

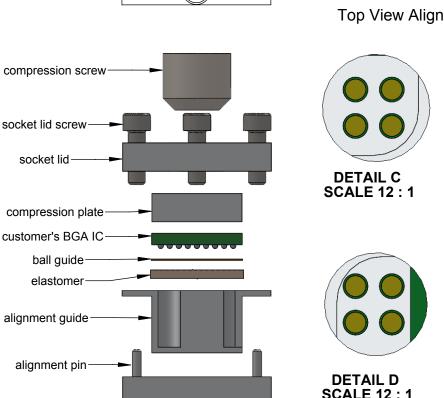
<u>Tolerances:</u> Hole diameters ±0.03mm [±0.001"], Pitches (from true position) ±0.025mm [±0.001"], substrate thickness tolerance ±10%, all other tolerances ±0.13mm [±0.005"] unless stated otherwise. Materials and specifications are subject to change without notice.

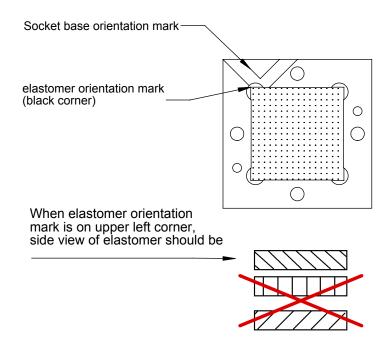
	SG-BGA-6390 Drawing	Material: N/A	STATUS: Released	SHEET: 3 OF 5	REV. B
4	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Weight: 3.85	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 7:1
Q			FILE: SG-BGA-6390 Dwg	DATE: 09-09-2013	





Top View Alignment Guide





User Instuctions:

- 1. Insert alignment plate onto socket base using dowel pins. Place alignment plate + socket base assembly onto target board.
- 2. Clean the PCB to remove grease, oil, and flux.
- 3. Align holes on alignment plate with four corner pads on target board, hold socket base on to board tightly with finger and put a drop of super glue on each corner. Let it dry, remove the alignment plate, then run a bead of epoxy around socket base and let it cure until epoxy

is hardened. Recommended epoxy: DP-420 Black (3M brand, 15 min work life).

Other equivalent epoxies can be substituted. Cure minimum 24 hours at room temperature.

Note: Do not oven cure.

- 4. Place elastomer inside the socket base cavity (direction and orientation are critical) as shown above.
- 5. Place ball guide inside the socket base cavity.
- 6. Place BGA package and compression plate into the socket base cavity.
- 7. Assemble socket lid onto socket base with socket lid screws.
- 8. Assemble compression screw into socket lid and gradually apply
- 0.4 in lb torque.

Description: User Instructions

socket base

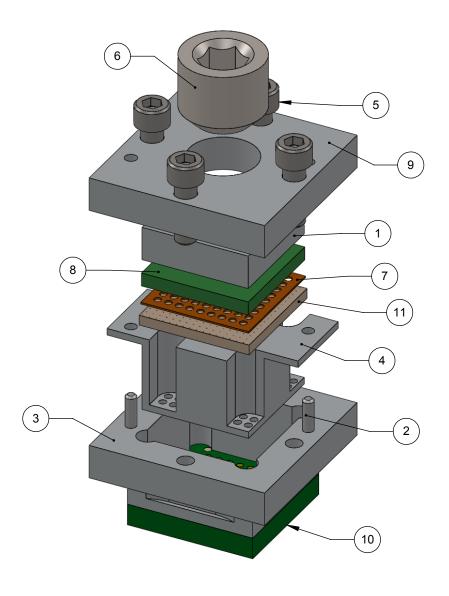
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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

customer's target PCB

epoxy area

SG-BGA-6390 Drawing	BGA-6390 Drawing Material: N/A	STATUS: Released	SHEET: 4 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 3.85	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
www.ironwoodelectronics.co		FILE: SG-BGA-6390 Dwg	DATE: 09-09-2013	



	·	
ITEM NO.	DESCRIPTION	Material
1	Compression Plate 8x8mm IC Swivel Socket	7075-T6 Alumium Alloy
2	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
3	Socket Base	7075-T6 Aluminum Alloy
4	Alignment Plate	7075-T6 Aluminum Alloy
5	#0-80 X .188 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
6	Compression Screw M6x1	Stainless Steel (18-8)
7	Ball guide for 8mm 9x9 array 0.8mm pitch IC	Kapton Polyimide
8	Customer's BGA device	Material <not specified=""></not>
9	Socket Lid	7075-T6 Aluminum Alloy
10	Customer's target PCB	FR4 Standard
11	0.75mm thick 0.1mm pitch 63 deg angled elastomer	Silicon Rubber

Rev	Date	Initials	Description
Α	9/9/13	ELS	Original
В	01/08/14	JV	Updated DP420 instructions ECO1519

Description: Material info

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-6390 Drawing		
•	Ironwood Electronics, Inc Tele: (800) 404-0204 www.ironwoodelectronics.c	

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

Material: N/A Finish: N/A Weight: 3.85

STATUS: Released	SHEET: 5 OF 5	REV. B
ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
FILE: SG-BGA-6390 Dwg	DATE: 09-09-2013	