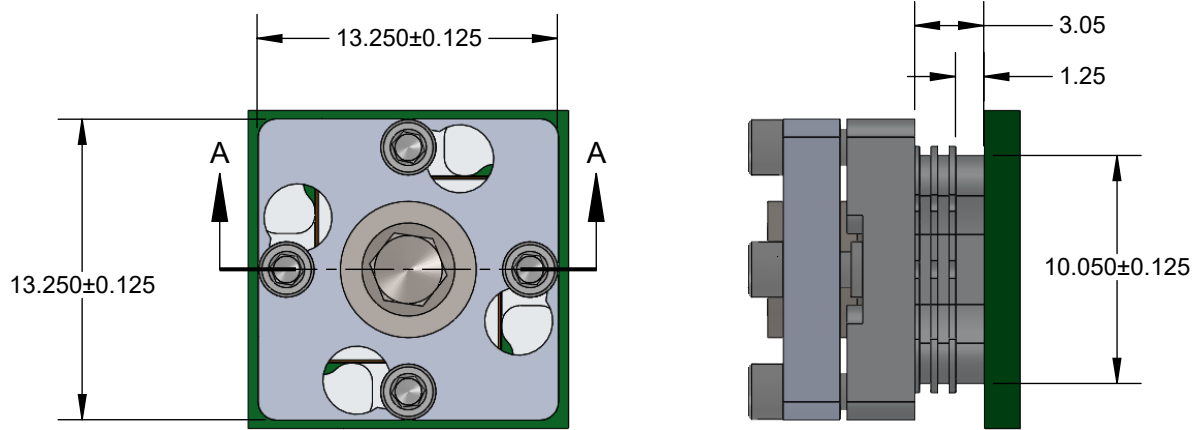


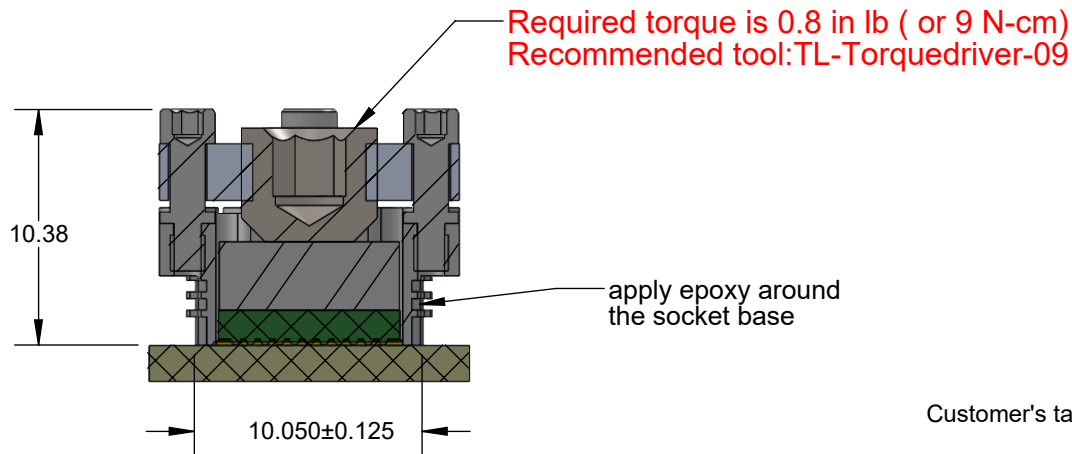
GHz BGA Socket - Epoxy mount, solderless

Features

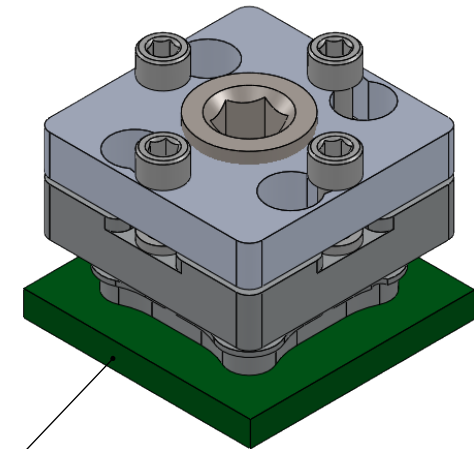
- Directly mounts to target PCB.
- High speed, reliable Elastomer connection
- Minimum real estate required
- Compression plate distributes forces evenly
- Easily removable socket lid



TOP VIEW



SECTION A-A



Customer's target PCB

Description: Epoxy Mount Socket for 8x8mm 11x11 0.65mm pitch BGA

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

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

SG15-BGA-1004 Drawing



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

Material: N/A
Finish: N/A
Weight: 4.12

STATUS: Released

ENG: S. Huang

FILE: SG15-BGA-1004 Dwg

SHEET: 1 OF 5

DRAWN BY: M. Raske

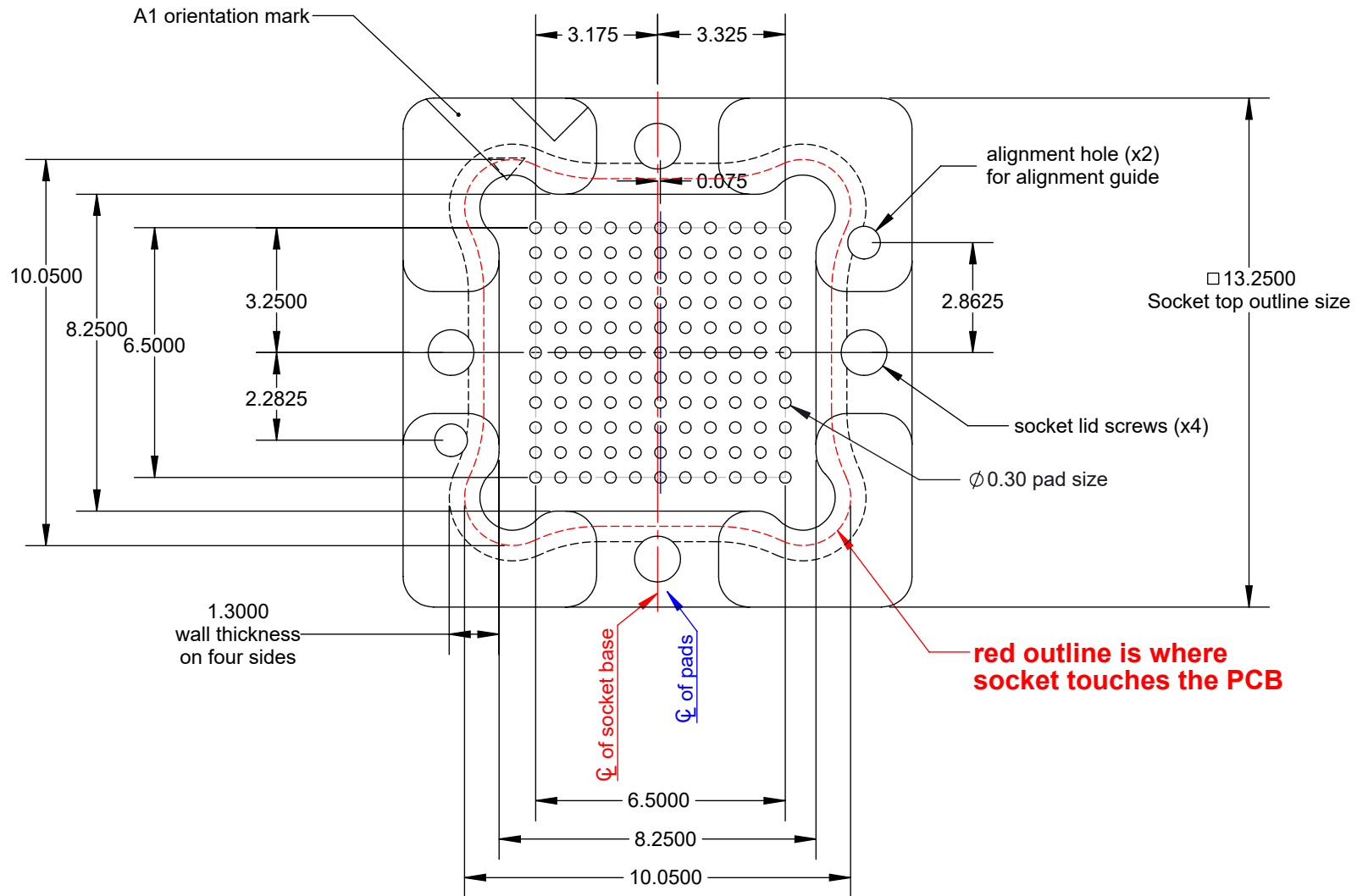
DATE: 09/14/2016

REV. A

SCALE: 3:1

Recommended PCB Layout


***Note: BGA pattern is not symmetrical with respect to the socket outline. It is shifted by 0.075mm to the right.**



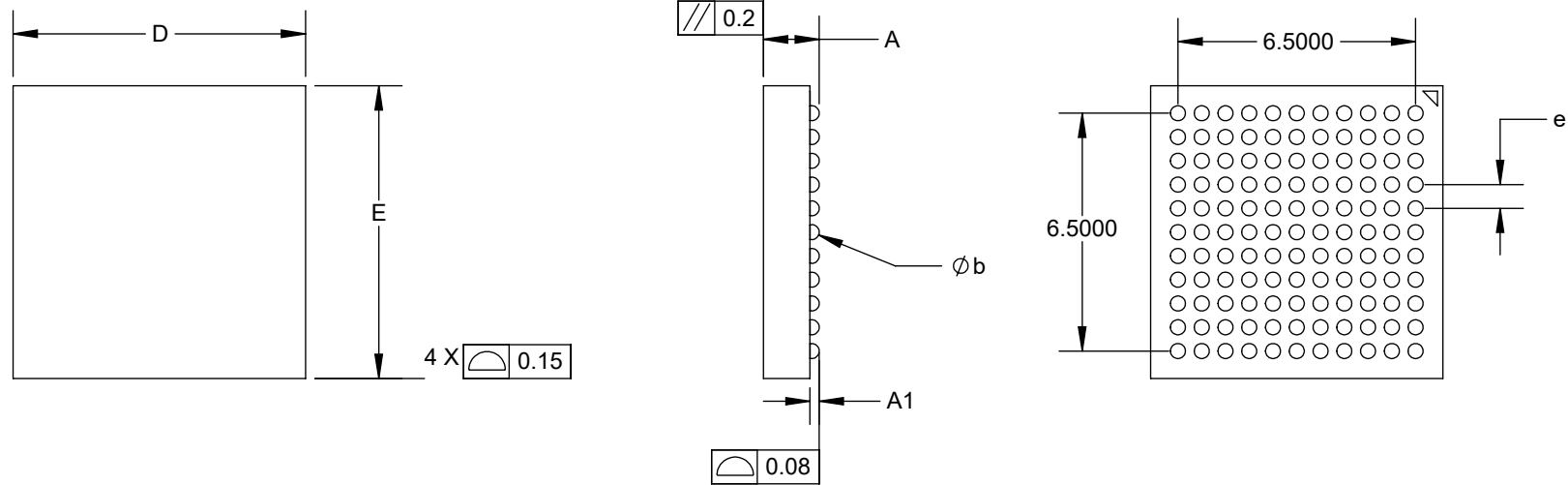
Description: Recommended PCB Layout

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

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

 SG15-BGA-1004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 4.12	STATUS: Released	SHEET: 2 OF 5	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 6:1
		FILE: SG15-BGA-1004 Dwg	DATE: 09/14/2016	

Ironwood Package Code: BGA121F




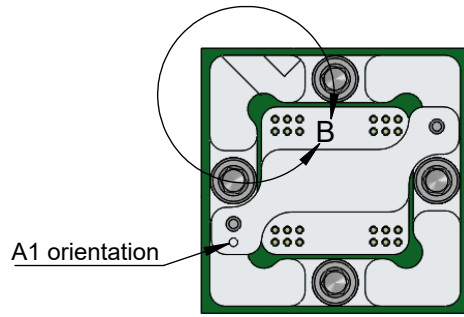
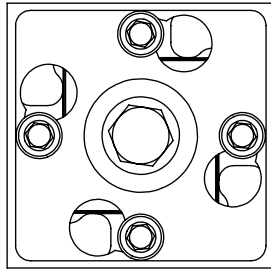
DIM	Minimum	Maximum
A		1.52
A1	0.15	0.25
b	0.25	0.35
D	8.00 BSC	
E	8.00 BSC	
e	0.65 BSC	
ARRAY	11x11	
PIN COUNT	121	

Description: Compatible BGA IC

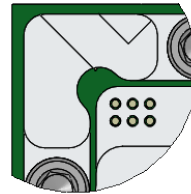
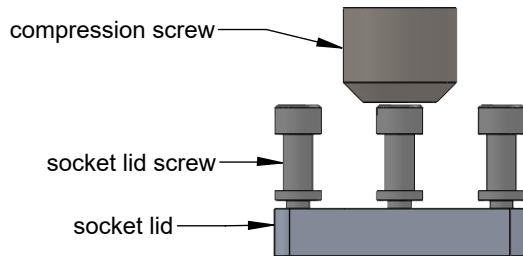
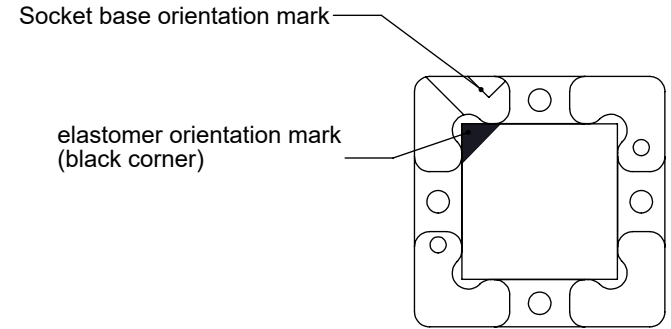
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams.

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

 SG15-BGA-1004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 4.12	STATUS: Released	SHEET: 3 OF 5	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 5:1
		FILE: SG15-BGA-1004 Dwg	DATE: 09/14/2016	

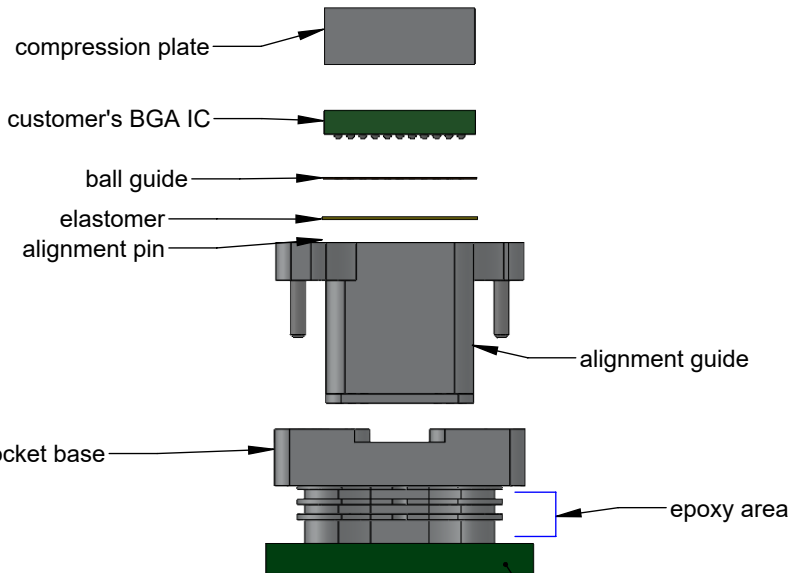
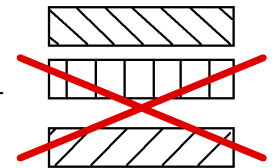


Top View Alignment Guide



DETAIL B
SCALE 3.5 : 1

When elastomer orientation mark is on upper left corner, side view of elastomer should be




User Instructions:

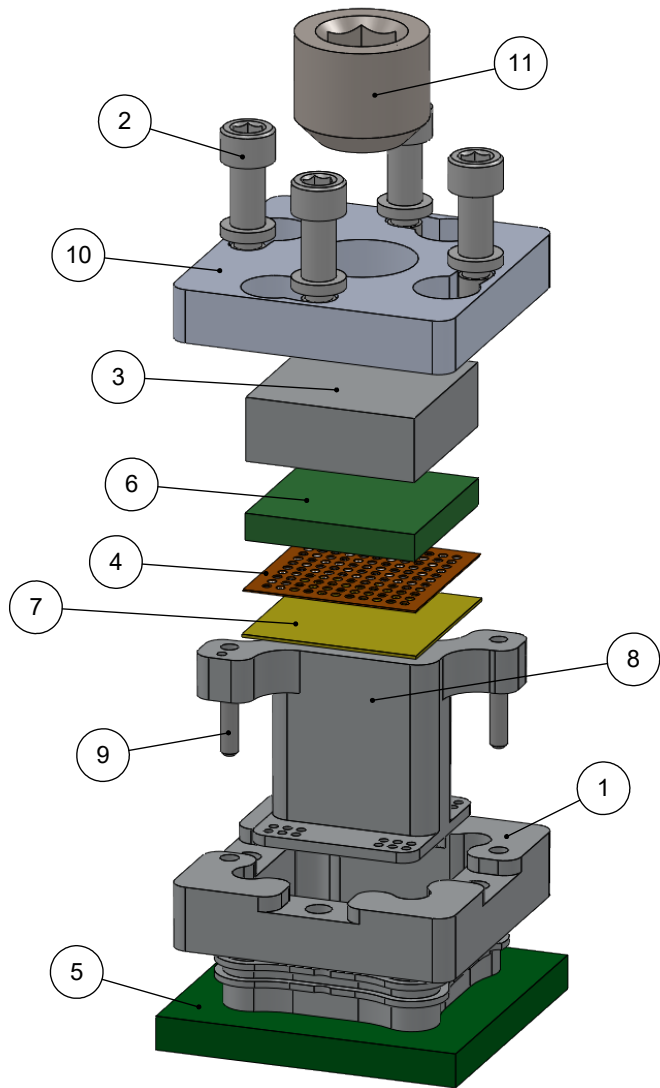
For socket mounting instructions refer EPM (Epoxy socket user manual)

<http://www.ironwoodelectronics.com/catalog/content/drawings/epm.pdf>

Description: User Instructions

Primary dimension units are millimeters, Secondary dimension units are [inches]. Weight is customer's target PCB
 Tolerances: Hole diameters $\pm 0.03\text{mm}$ [$\pm 0.001"$], Pitches (from true position) $\pm 0.025\text{mm}$ [$\pm 0.001"$], substrate thickness tolerance $\pm 10\%$, all other tolerances $\pm 0.13\text{mm}$ [$\pm 0.005"$] unless stated otherwise. Materials and specifications are subject to change without notice.

 <p>SG15-BGA-1004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 4.12</p>	<p>STATUS: Released ENG: S. Huang FILE: SG15-BGA-1004 Dwg</p>	<p>SHEET: 4 OF 5 DRAWN BY: M. Raske DATE: 09/14/2016</p>	<p>REV. A SCALE: 2.5:1</p>




ITEM NO.	DESCRIPTION	Material
1	Epoxy Socket Base 8x8mm IC	7075-T6 Aluminum Alloy
2	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
3	Compression Plate 3mm TK	7075-T6 Aluminum Alloy
4	Ball guide 11x11 array 0.65mm pitch	Kapton Polyimide
5	Target PCB 11x11 array 0.65mm pitch	FR4 Standard
6	Customer's BGA device	FR4 High temp
7	0.15mm thick, 0.05x 0.05mm pitch, 10mm sq, Z-axis conductive angled elastomer	20 Micron dia gold plated brass filaments arranged symmetrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm
8	epoxy mount alignment guide	7075-T6 Aluminum Alloy
9	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
10	Socket lid for 8x8mm IC	7075-T6 Aluminum Alloy
11	Compression Screw M6x1	Stainless Steel (18-8)

Description: Material info

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

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

 SG15-BGA-1004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 4.12	STATUS: Released	SHEET: 5 OF 5	REV. A
		ENG: S. Huang	DRAWN BY: M. Raske	SCALE: 3:1
		FILE: SG15-BGA-1004 Dwg	DATE: 09/14/2016	