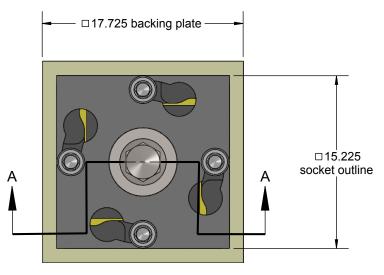
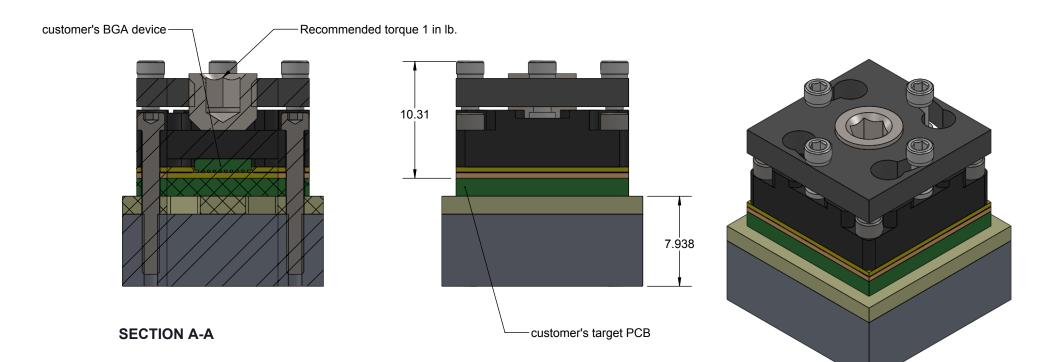
# GHz BGA Socket - Direct mount, solderless



## 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
  Easily removable swivel socket lid

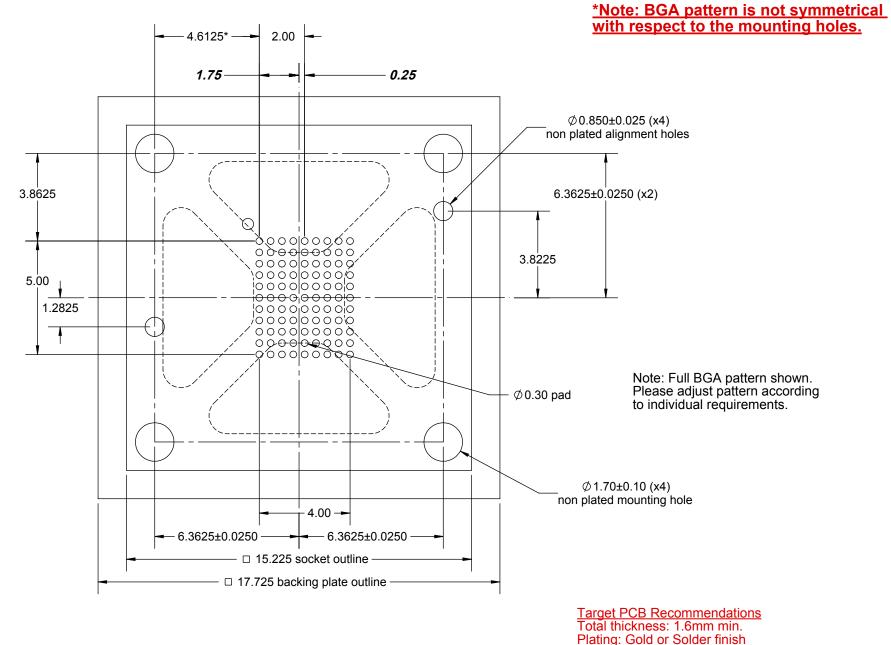


### Description: Elastomer socket for 5x6mm, 9x11, 0.5mm pitch

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-7263 Drawing	Finish: N/A Weight: 12.05	STATUS: Released	SHEET: 1 OF 5	REV. B
•	Ironwood Electronics, Inc. Tele: (800) 404-0204		ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
	www.ironwoodelectronics.com		FILE: SG-BGA-7263 Dwg	DATE: 10/07/2013	

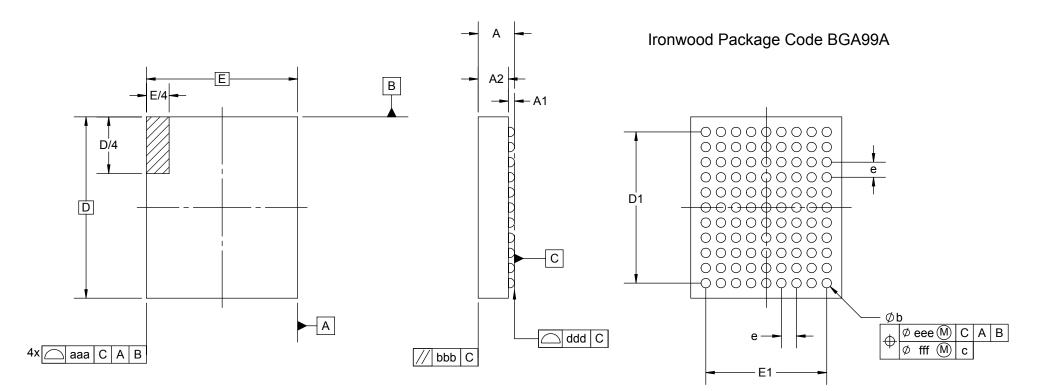


#### PCB Pad height: Same or higher than solder mask

Description: Recommended PCB Layout

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

SG-BGA-7263 Drawing Material: N/A	A STATUS: Released	SHEET: 2 OF 5	REV. B
Ironwood Electronics, Inc. Finish: N/A Tele: (800) 404-0204 Weight: 12.0	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 6:1
www.ironwoodelectronics.com	FILE: SG-BGA-7263 Dwg	DATE: 10/07/2013	



DIM	MIN	MAX		
A	-	1.20		
A1	0.15	-		
A2		1.00		
b	0.25	0.35		
D	6			
D1	5			
E	5			
E1	4			
е	0.50			
aaa	0.15			
bbb	0.	20		
ddd	0.08			
eee	0.	15		
fff	0.	05		

#### 9 x 11 array

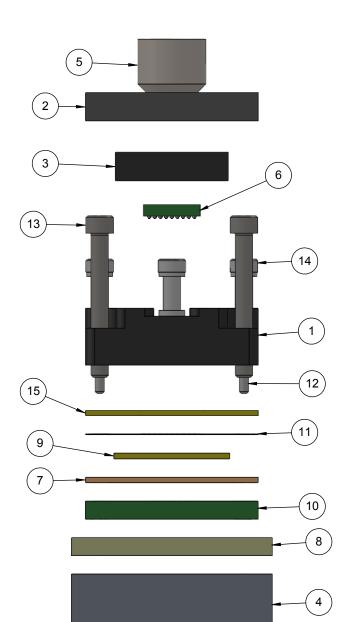
Dimensions are in millimeters.

- 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.

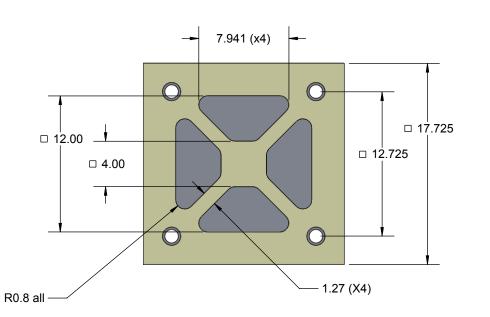
#### **Description: Compatible Device**

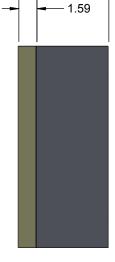
Primary dimension units are millimeters, Secondary dimension units are [inches], Weight is in grams. <u>Tolerances</u>: Hole diameters  $\pm 0.03$ mm [ $\pm 0.001$ "], Pitches (from true position)  $\pm 0.025$ mm [ $\pm 0.001$ "], substrate thickness tolerance  $\pm 10\%$ , all other tolerances  $\pm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

SG-BGA-7263 Drawing		Material. W/	STATUS: Released	SHEET: 3 OF 5	REV. B
8	Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: N/A Weight: 12.05	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 8:1
	www.ironwoodelectronics.com	- <b>J</b>	FILE: SG-BGA-7263 Dwg	DATE: 10/07/2013	



ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Aluminum Alloy
2	Socket Lid	7075-T6 Aluminum Alloy
3	Compression Plate	7075-T6 Aluminum Alloy
4	Backing Plate, 17.73 X 17.73	7075-T6 Aluminum Alloy
5	Compression Screw M6x1	Stainless Steel (18-8)
6	BGA test chip	Material <not specified=""></not>
7	Elastomer guide for 10mm IC	Ultem 1000
8	Insulation Plate	FR4 High temp
9	0.5mm thick, 0.05x 0.05mm pitch, 10mm sqr, Z-axis conductive angled elastomer	20 Micron dia gold plated brass filaments arranged symettrically in a silicon rubber (63.5 degree angle), Thickness: 0.5mm
10	Target PCB	FR4
11	Ball Guide,11x11, 0.41, 0.5mm pitch	Kapton Polyimide/Cirlex
12	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
13	#0-80 x 0.5, SH Cap Screw	Alloy Steel
14	#0-80 Shoulder Screw, 0.090" thread length	Stainless Steel (303)
15	IC guide for 5x6mm device	Torlon 4203





---- 6.35 ---

#### Description: Skt, Backing Plate Detail

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

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

SG-BGA-7263 Drawing			STATUS: Released	SHEET: 4 OF 5	REV. B
•	Ironwood Electronics, Inc.	Finish: N/A Weight: 12.05	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
	Tele: (800) 404-0204 www.ironwoodelectronics.com	Woight: 12:00	FILE: SG-BGA-7263 Dwg	DATE: 10/07/2013	

Rev	Date	Initials	Description
Α	10/07/13	MR	Original
В	09/22/14	DH	Change IC Guide material to Torlon

#### **Description: Revisions**

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

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

SG-BGA-7263 Drawing	Material:	STATUS: Released	SHEET: 5 OF 5	REV. B
Ironwood Electronics, Inc. Tele: (800) 404-0204	Finish: Weight:	ENG: E. Smolentseva	DRAWN BY: M. Raske	SCALE: 3:1
www.ironwoodelectronics.co		FILE: SG-BGA-7263 Dwg	DATE: 10/07/2013	