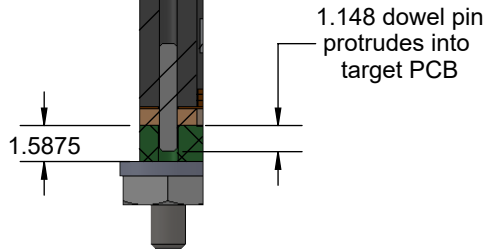
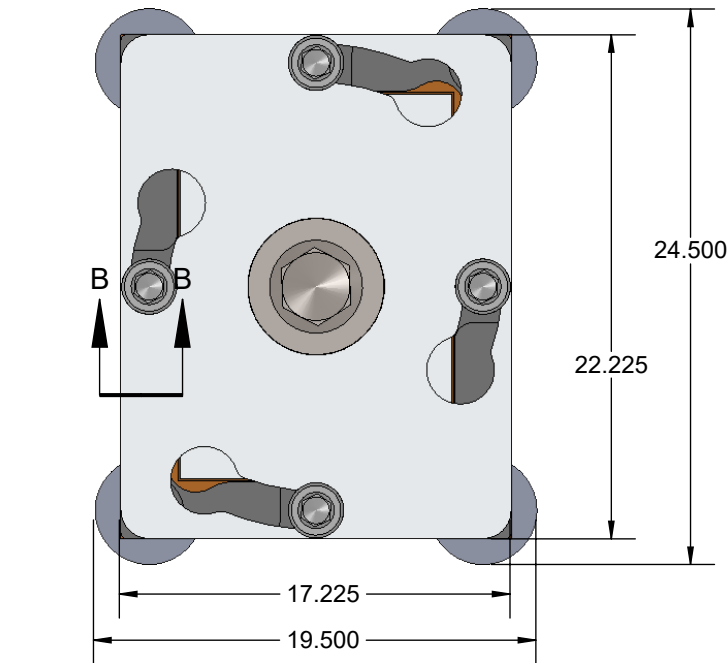


GHz BGA Socket - Direct mount, solderless

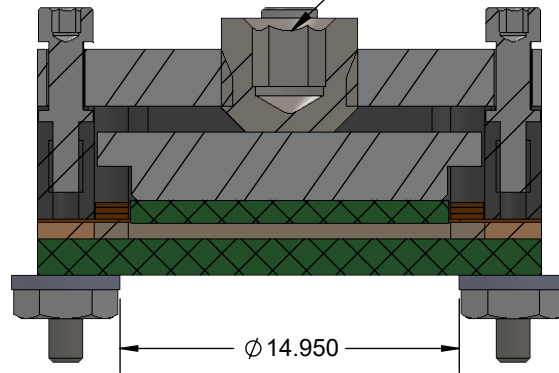
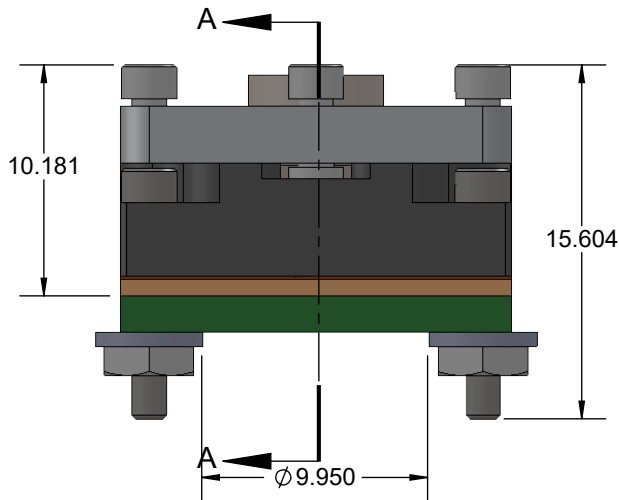
Features

- 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

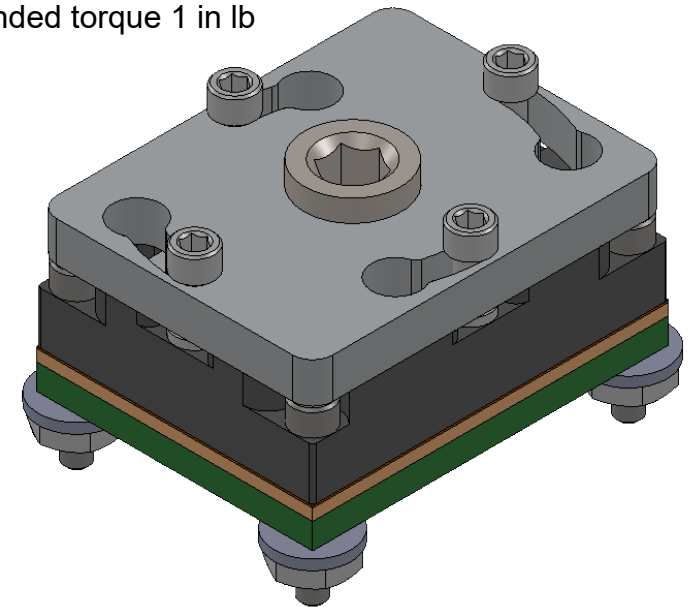


SECTION B-B

Recommended torque 1 in lb



SECTION A-A



Description: Socket for 9x16 0.8mm pitch BGA96

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

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

SG-BGA-6410 Drawing



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

Material: N/A
Finish: N/A
Weight: 9.82

STATUS: Released

ENG: S. Faiz

FILE: SG-BGA-6410 Dwg

SHEET: 1 OF 8

DRAWN BY: S. Faiz

DATE: 11/11/15

REV. B

SCALE: 3:1

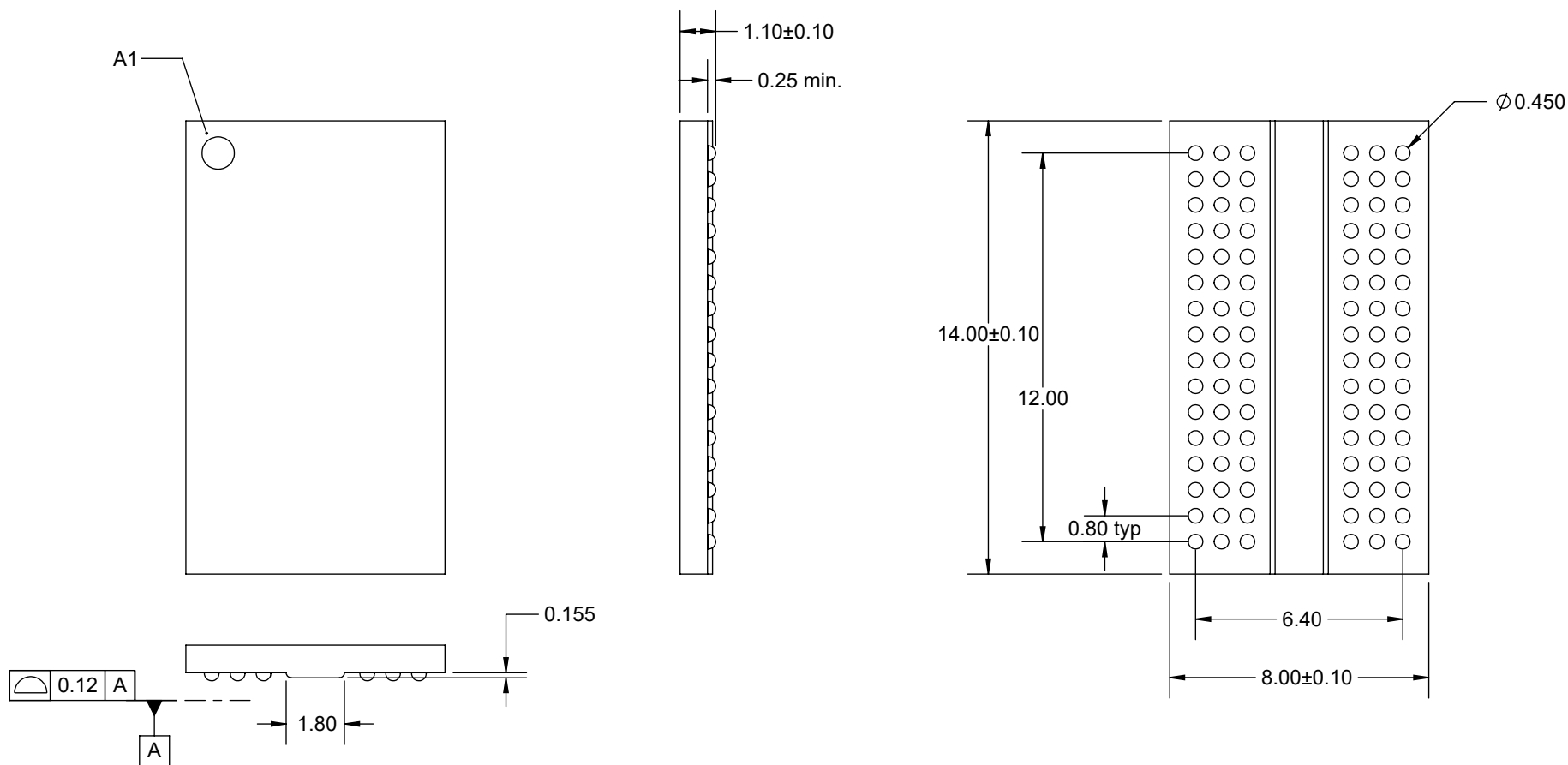
Technical drawing of a square plate with the following dimensions and features:

- Overall width: 17.225
- Overall height: 22.225
- Top edge features:
 - Two large circular features with centers 7.3625±0.025 from the left and right edges.
 - Distance between centers: 7.3625±0.025
 - Distance from right center to right edge: 7.3625±0.025
 - Distance from left center to left edge: 2.825
 - Distance from left center to right center: 3.58±0.025
- Bottom edge features:
 - Two large circular features with centers 6.400 from the left and right edges.
 - Distance between centers: 6.400
- Left edge features:
 - Distance from top edge to center of top-left feature: 9.8625±0.025
 - Distance from center of top-left feature to center of bottom-left feature: 4.783±0.025
- Right edge features:
 - Distance from top edge to center of top-right feature: 7.3225±0.025
 - Distance from center of top-right feature to center of bottom-right feature: 6.00±0.025
 - Distance from center of bottom-right feature to bottom edge: 9.8625±0.025
- Internal features:
 - Two vertical columns of small circular features (holes) in the center, each 6.400 from the nearest side.
 - Distance between the two columns: 6.400
 - Each column contains 12 holes.
 - Distance from top edge to top of holes: 12.000
 - Distance from bottom of holes to bottom edge: 12.000
- Other features:
 - Four large circular features with centers at the corners, each with a diameter of $\phi 1.700 \pm 0.100$ (x4).
 - Two small circular features with centers at the midpoints of the left and right edges, each with a diameter of $\phi 0.850 \pm 0.025$ (x2).
 - Two small circular features with centers at the midpoints of the top and bottom edges, each with a diameter of $\phi 0.460$ pad (x96).

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.

PCB Pad Height: Same or higher than solder mask

 SG-BGA-6410 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 9.82	STATUS: Released	SHEET: 2 OF 8	REV. B
		ENG: S. Faiz	DRAWN BY: S. Faiz	SCALE: 5:1
		FILE: SG-BGA-6410 Dwg	DATE: 11/11/15	



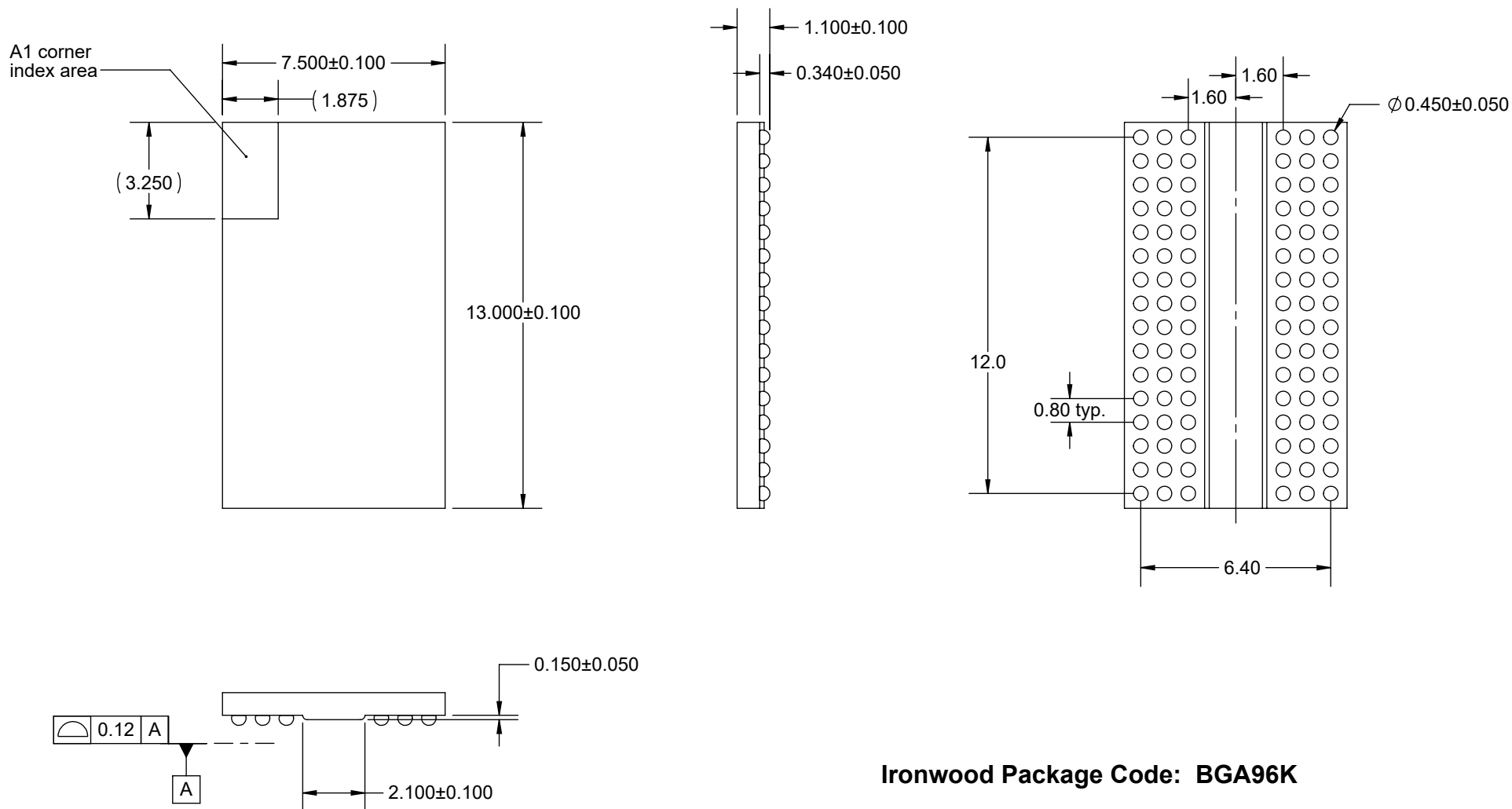
Ironwood Package Code: BGA96H

Description: Compatible Device 8x14mm

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-6410 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 9.82	STATUS: Released	SHEET: 3 OF 8	REV. B
		ENG: S. Faiz	DRAWN BY: S. Faiz	SCALE: 3.5:1
		FILE: SG-BGA-6410 Dwg	DATE: 11/11/15	



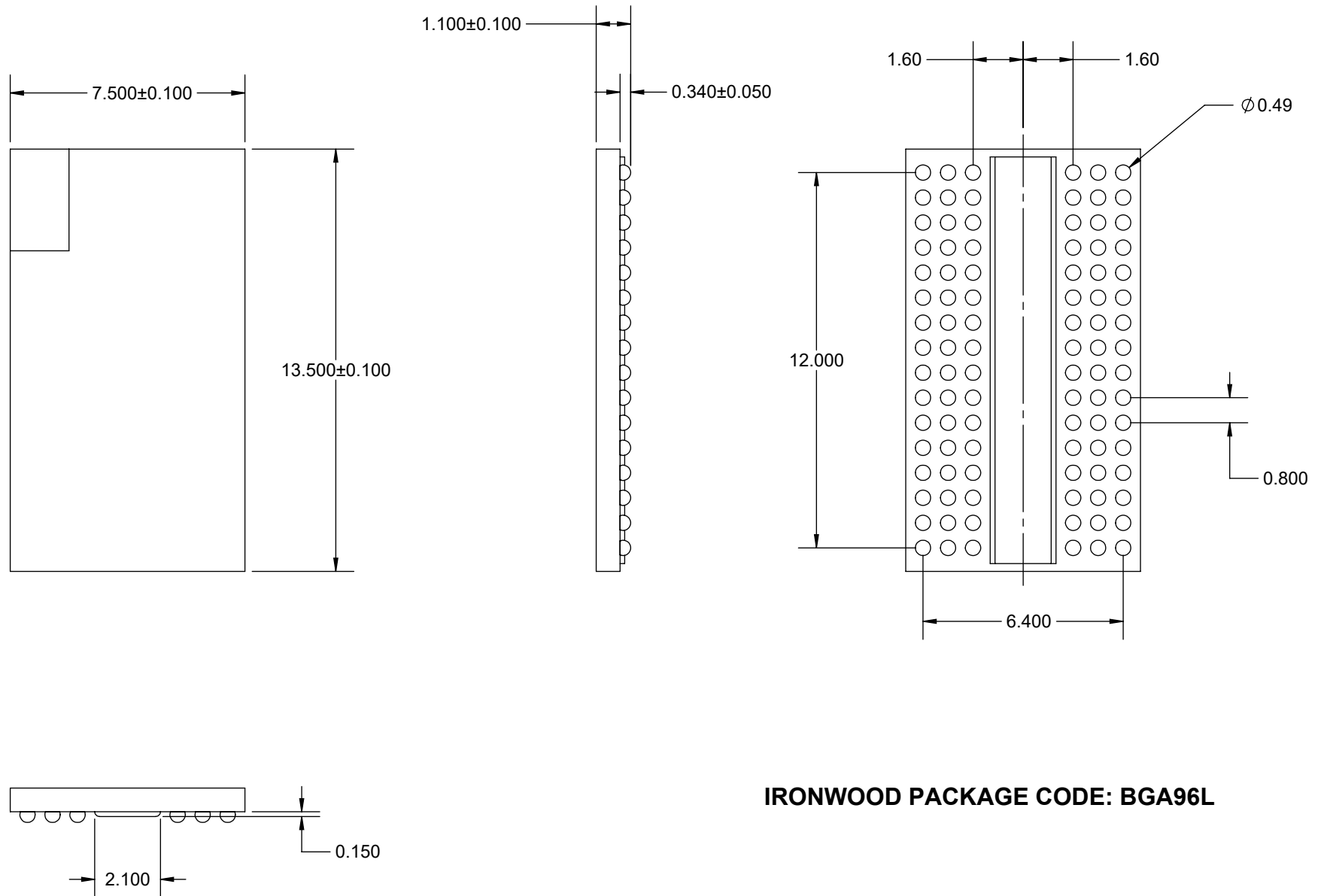
Ironwood Package Code: **BGA96K**

Description: Compatible Device 7.5x13mm

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.

 SG-BGA-6410 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 9.82	STATUS: Released	SHEET: 4 OF 8	REV. B
		ENG: S. Faiz	DRAWN BY: S. Faiz	SCALE: 3.5:1
		FILE: SG-BGA-6410 Dwg	DATE: 11/11/15	



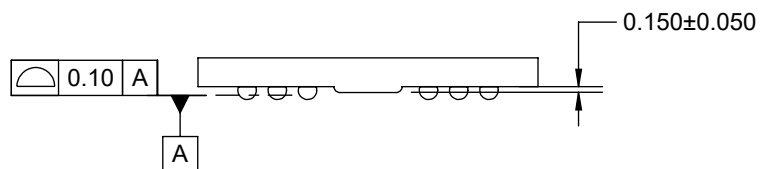
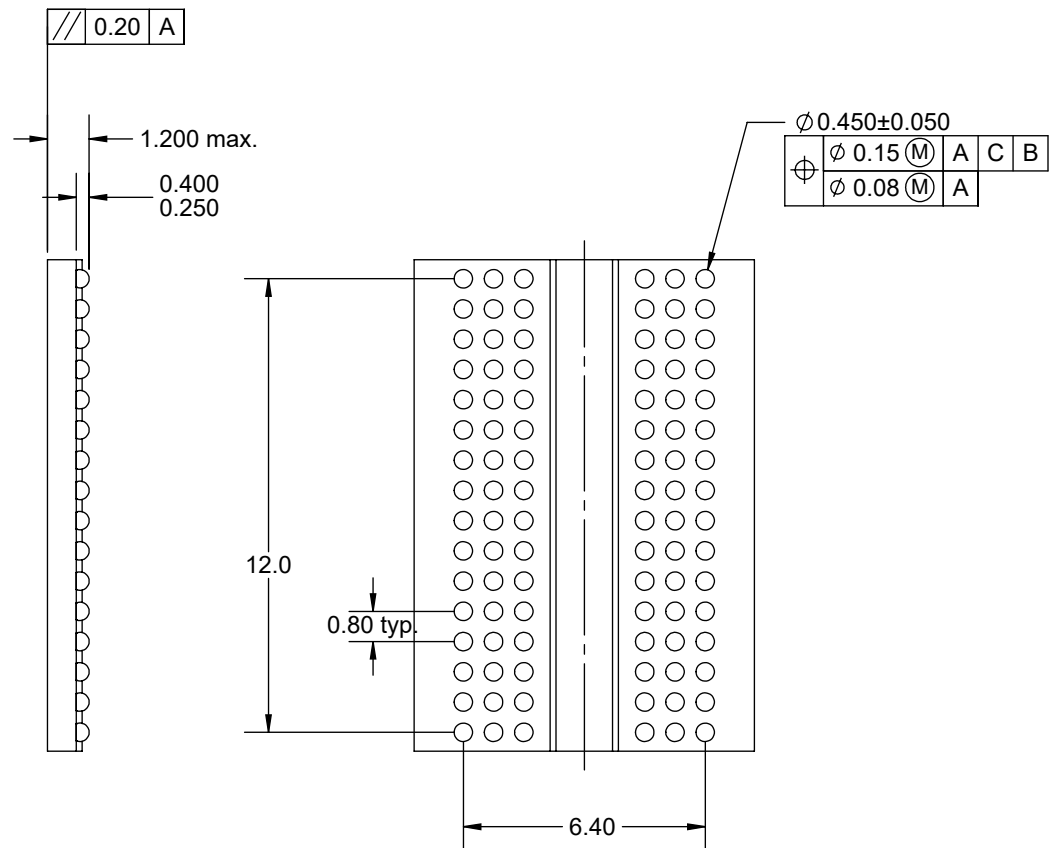
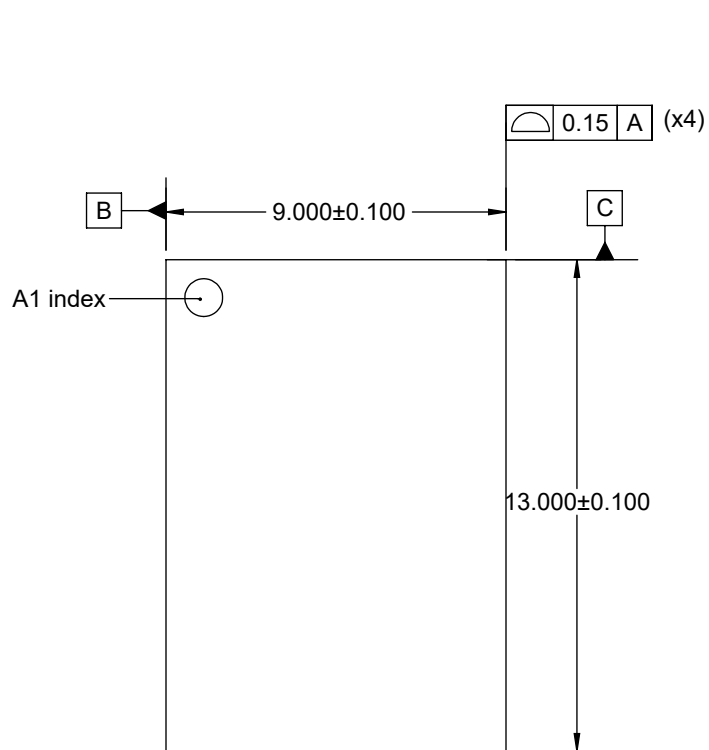
IRONWOOD PACKAGE CODE: BGA96L

Description: Compatible Device 7.5x13.5mm

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

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

SG-BGA-6410 Drawing  ©2015 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 9.82	STATUS: Released	SHEET: 5 OF 8	REV. B
		ENG: S. Faiz	DRAWN BY: S. Faiz	SCALE: 5.5:1
		FILE: SG-BGA-6410 Dwg	DATE: 11/11/15	



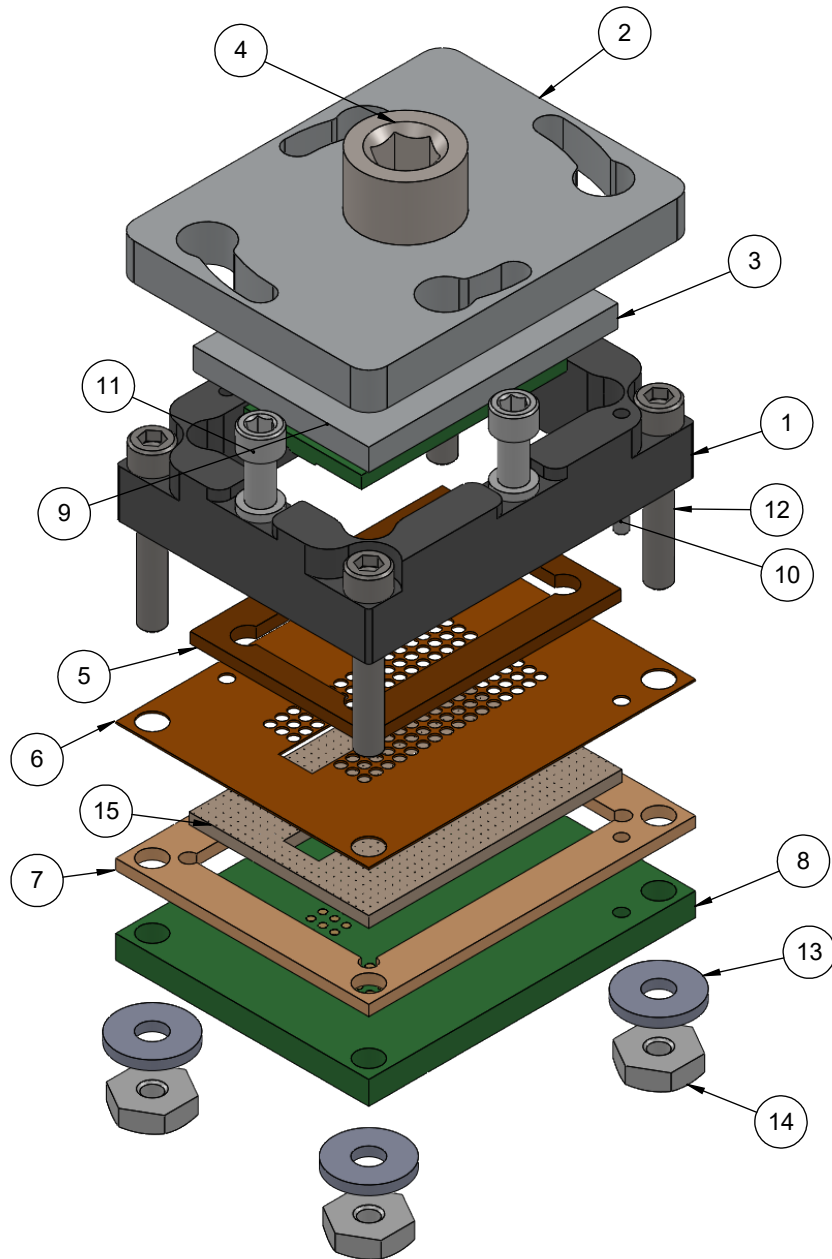
Ironwood Package Code: BGA96G

Description: Compatible Device 9x13mm

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

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

 SG-BGA-6410 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 9.82	STATUS: Released	SHEET: 6 OF 8	REV. B
		ENG: S. Faiz	DRAWN BY: S. Faiz	SCALE: 3.5:1
		FILE: SG-BGA-6410 Dwg	DATE: 11/11/15	



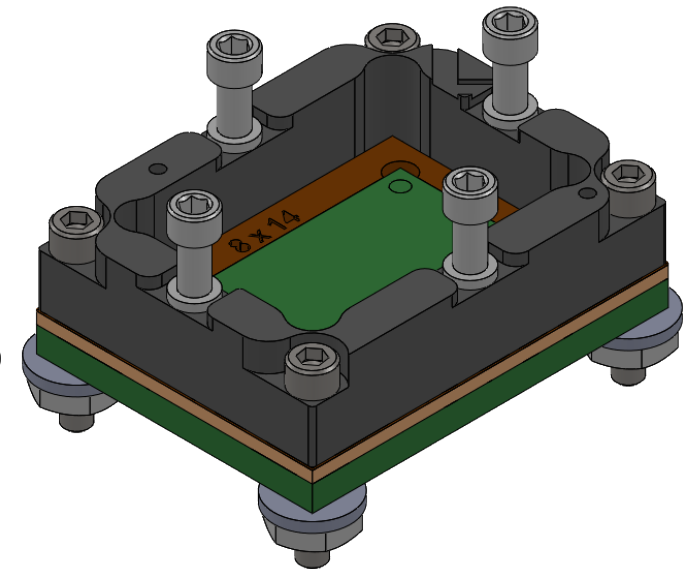
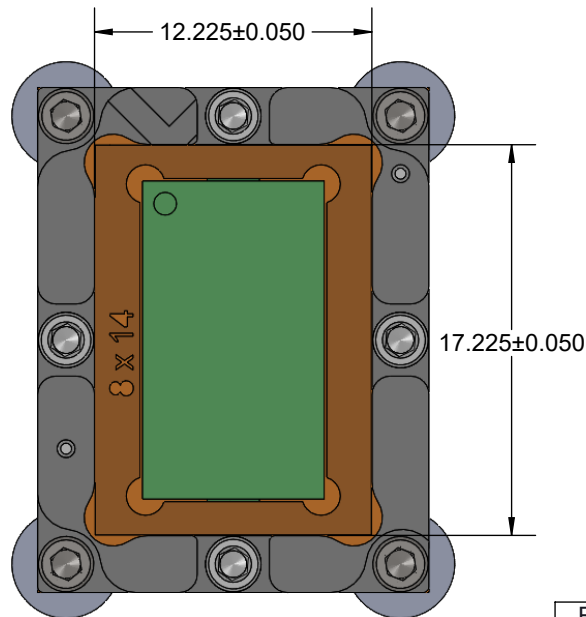
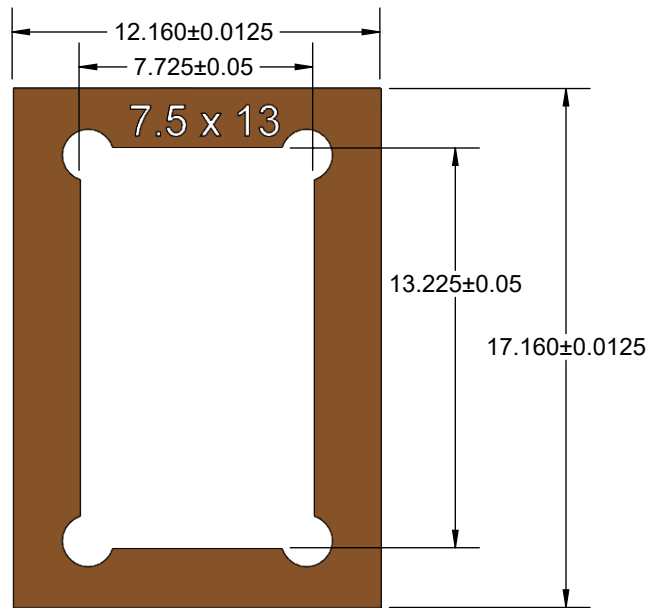
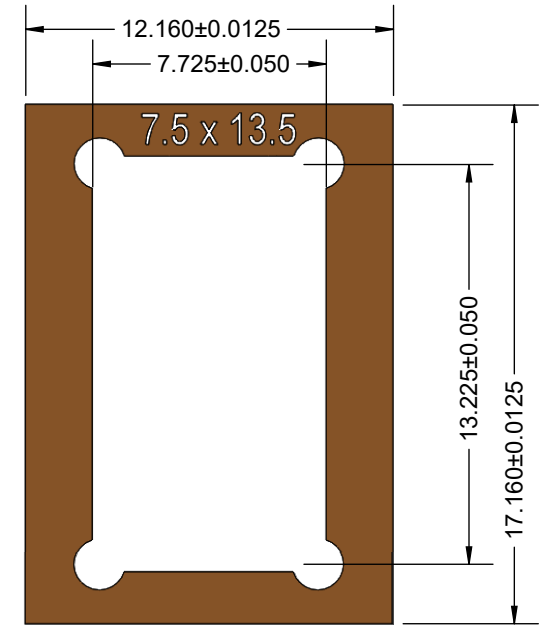
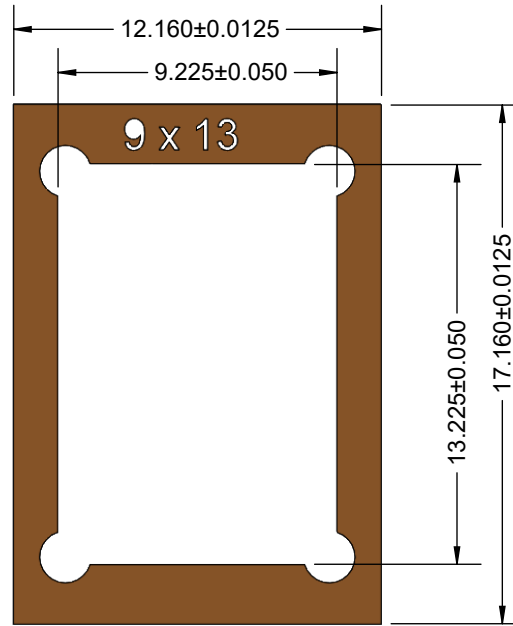
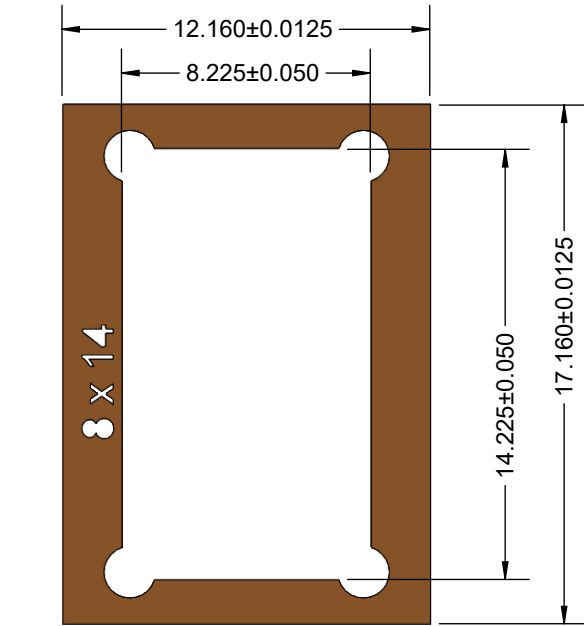
ITEM NO.	DESCRIPTION	Material
1	Socket Base	7075-T6 Aluminum Alloy
2	Socket Lid	7075-T6 Aluminum Alloy
3	Compression plate	7075-T6 Aluminum Alloy
4	Compression Screw M6x1	Stainless Steel (18-8)
5	IC Guide for 8x14mm IC	Kapton Polyimide/Cirlex
6	Ball Guide	Kapton Polyimide/Cirlex
7	Elastomer Guide	Ultem 1000
8	Customer's target PCB	FR4 Standard
9	Customer's device	FR4 Standard
10	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
11	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
12	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
13	Washer, #0 x .025", Nylon	Nylon 6/6
14	Nut, #0-80, SS	Stainless Steel (18-8)
15	0.75mm thick 0.1mm pitch 63 deg angled elastomer	Silicon Rubber

Description: Assembly

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.

 SG-BGA-6410 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 9.82	STATUS: Released	SHEET: 7 OF 8	REV. B
		ENG: S. Faiz	DRAWN BY: S. Faiz	SCALE: 2.75:1
		FILE: SG-BGA-6410 Dwg	DATE: 11/11/15	



Description: IC Guides

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.

Rev	Date	Initials	Description
A	10/9/14	MR	Original
B	11/11/15	SF	Added 7.5x13.5mm IC guide

SG-BGA-6410 Drawing		Material: N/A Finish: N/A Weight: 9.82	STATUS: Released		SHEET: 8 OF 8		REV. B	
 Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	ENG: S. Faiz		DRAWN BY: S. Faiz		SCALE: 4:1			
	FILE: SG-BGA-6410 Dwg		DATE: 11/11/15					