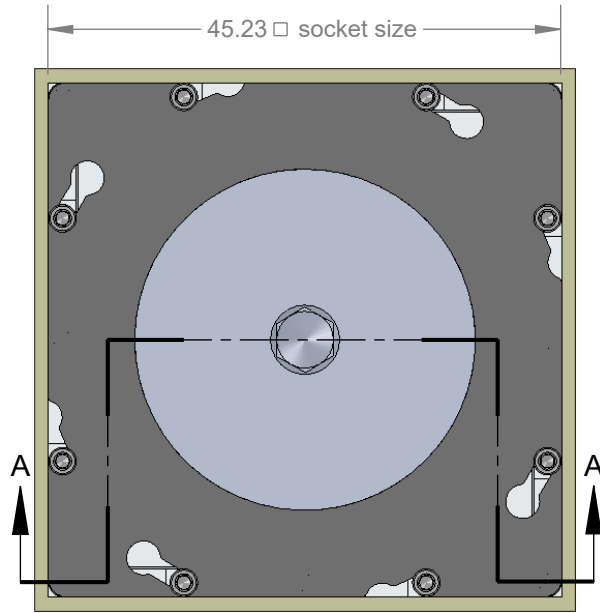
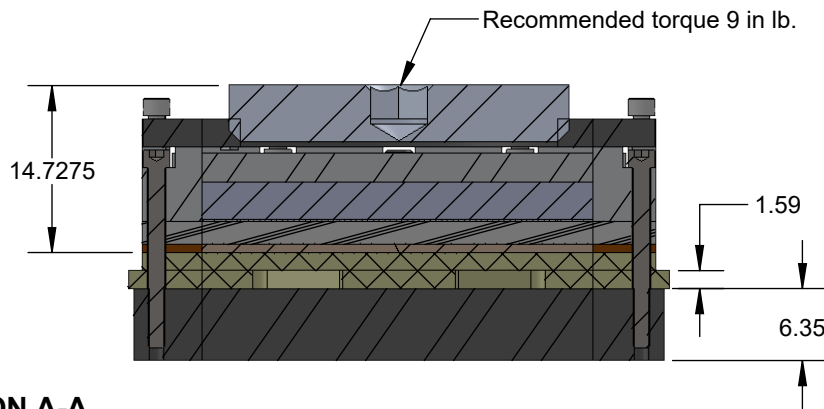


# GHz BGA Socket - Direct mount, solderless



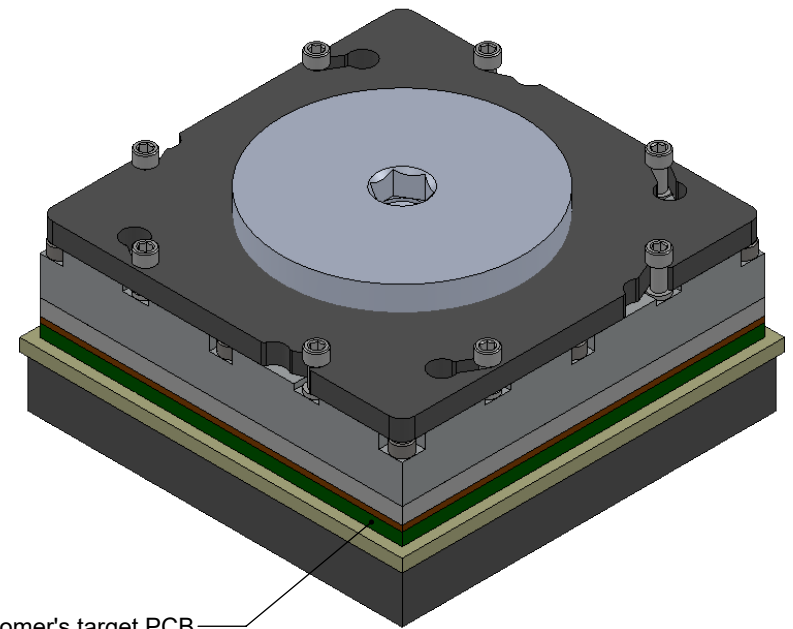
TOP VIEW



SECTION A-A

## 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
- Easily removable swivel socket lid



## Description: GHz elastomer socket for Actel 1272 CCGA

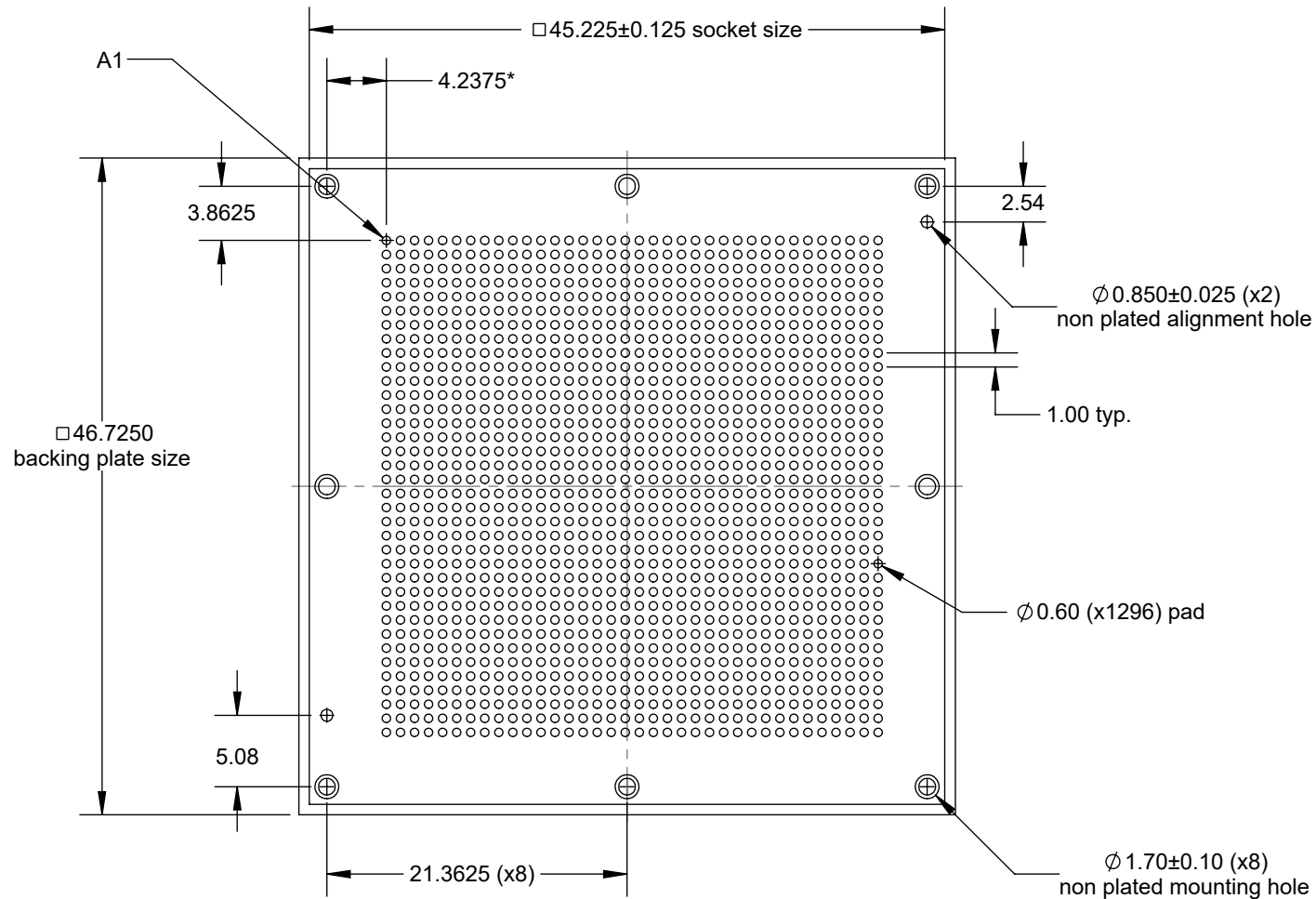
Primary dimension units are millimeters, Secondary dimension units are [inches].

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.

 <b>SG-CGA-6002 Specification</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 98.96	STATUS: Released	SHEET: 1 OF 5	REV. A
		DRAWN BY: M. Raske	SCALE: 3:2	
		FILE: SG-CGA-6002 Dwg	DATE: 02/23/2016	

## Recommended PCB Layout Top View

**\*Note: CCGA pattern is not symmetrical with respect to the mounting holes.**



### Target PCB Recommendations

Total Thickness: 1.5mm min.

Plating: Gold or Solder finish.


PCB Pad Height: Same or higher than solder mask.

### Description: GHZ elastomer socket for Actel 1272 CCGA

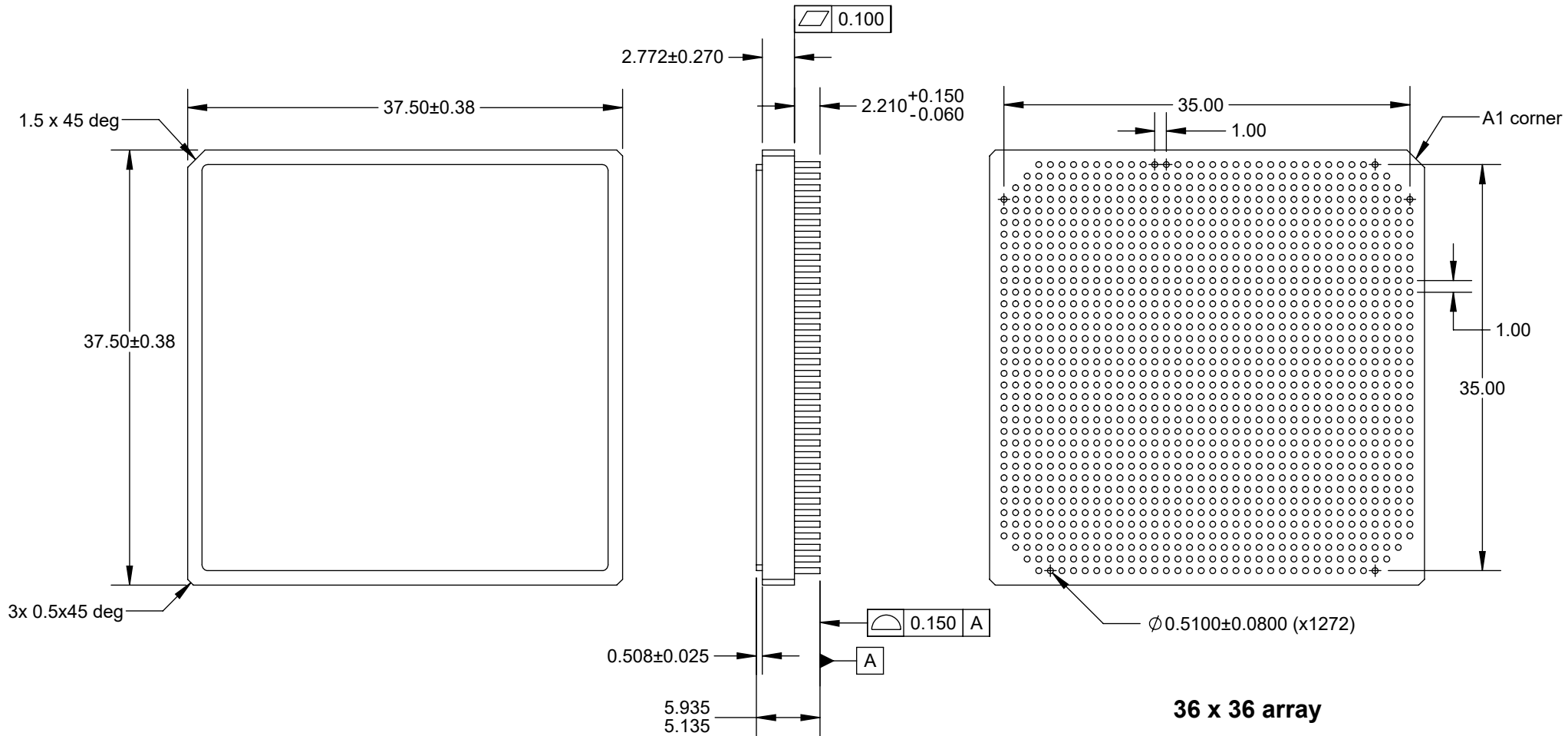
Primary dimension units are millimeters, Secondary dimension units are [inches].

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.

Note: Full BGA pattern shown.  
Please adjust pattern according to individual requirements.

 <p><b>SG-CGA-6002 Specification</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 98.96</p>	STATUS: Released	SHEET: 2 OF 5	REV. A
		DRAWN BY: M. Raske	SCALE: 2:1	
		FILE: SG-CGA-6002 Dwg	DATE: 02/23/2016	


# Compatible CCGA IC



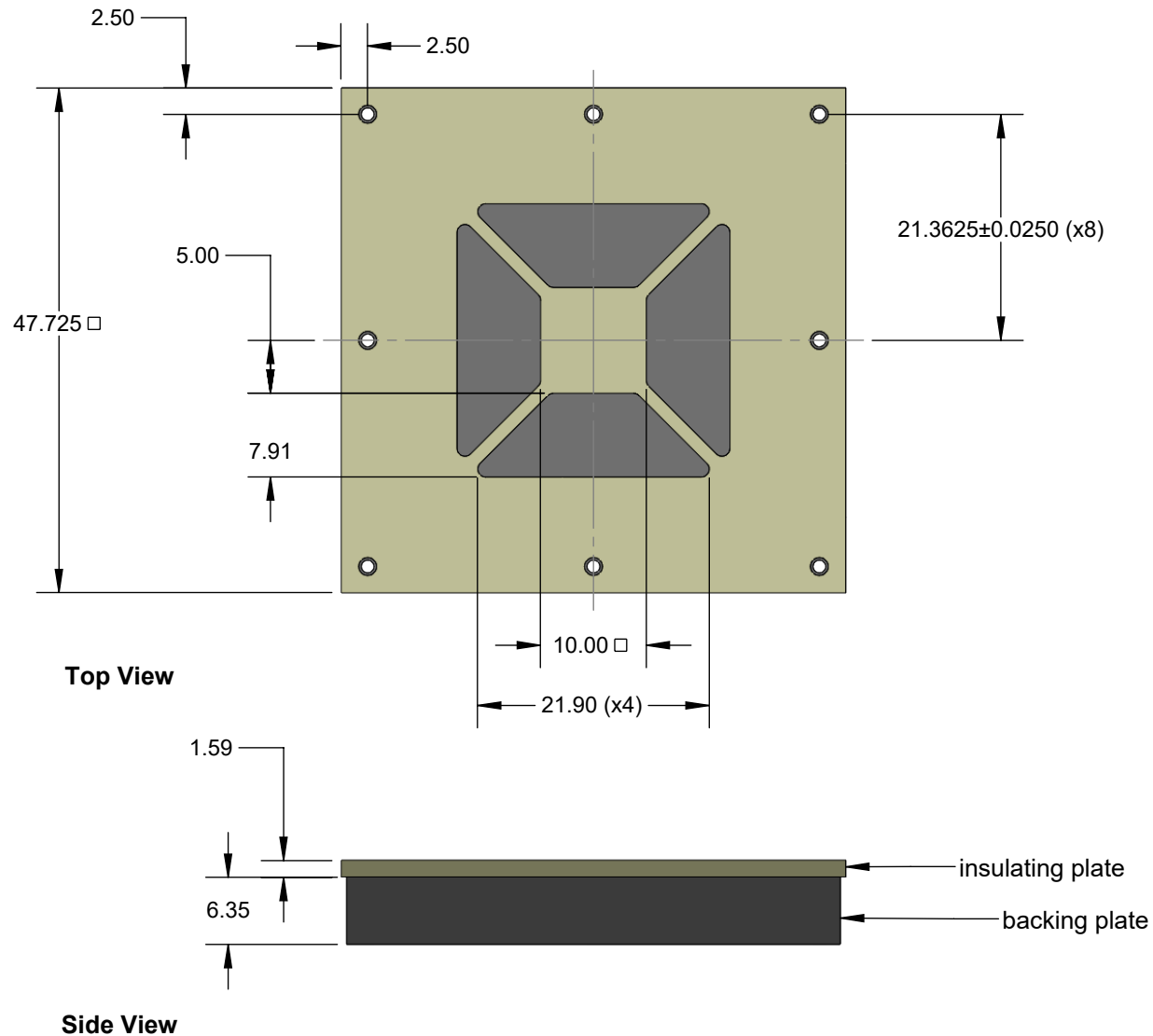
## Description: GHz elastomer socket for Actel 1272 CCGA

Primary dimension units are millimeters, Secondary dimension units are [inches].

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.

 <p><b>SG-CGA-6002 Specification</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 98.96</p>	STATUS: Released	SHEET: 3 OF 5	REV. A
		DRAWN BY: M. Raske	SCALE: 3:2	
		FILE: SG-CGA-6002 Dwg	DATE: 02/23/2016	


Note: Backing plate holes are tapped to accept 0-80 screws.

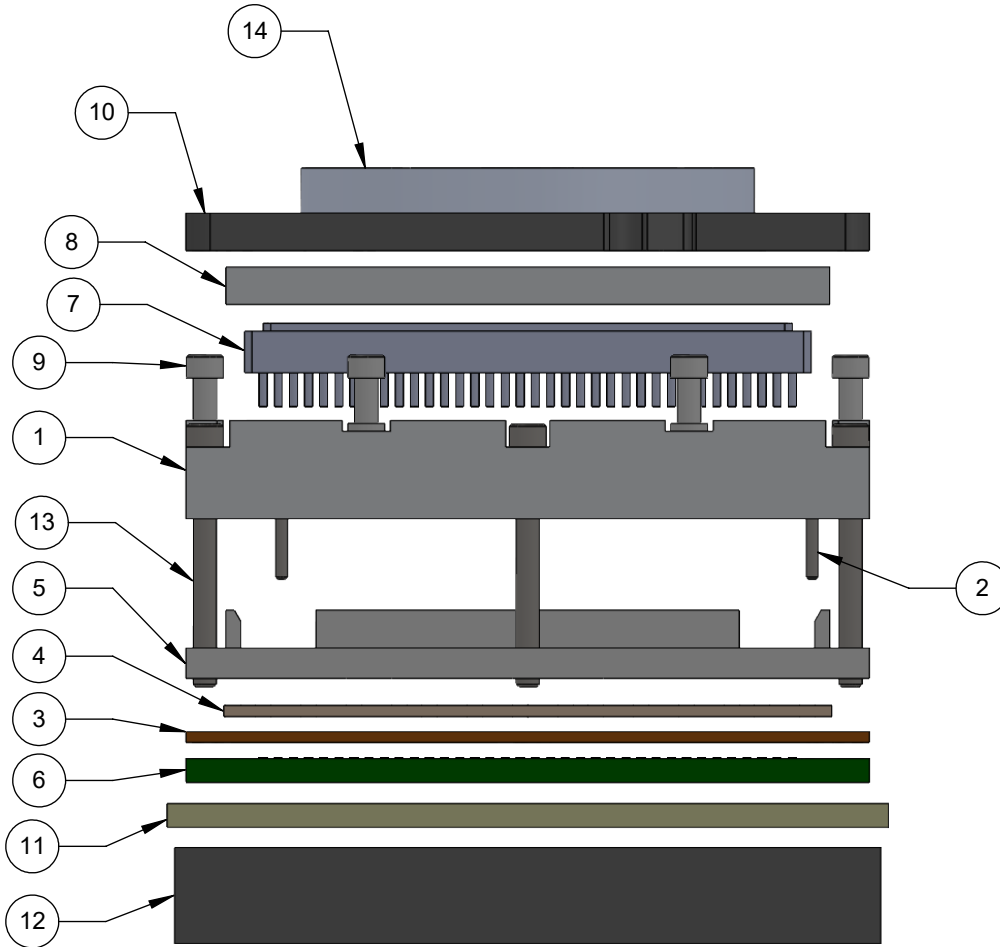


**Description: GHz elastomer socket for Actel 1272 CCGA**

Primary dimension units are millimeters, Secondary dimension units are [inches].

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.

 <b>SG-CGA-6002 Specification</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 98.96	STATUS: Released	SHEET: 4 OF 5	REV. A
		DRAWN BY: M. Raske	SCALE: 3:2	
		FILE: SG-CGA-6002 Dwg	DATE: 02/23/2016	




ITEM NO.	Description	Material
1	Socket Base 40mm IC 6.5mm thick	7075-T6 Aluminum Alloy
2	Dowel pin, 1/32" X 1/4", SS	Stainless Steel (18-8)
3	Elastomer Guide 40mm IC	Kapton Polyimide/Cirlex/Ultem
4	0.75mm thick 0.1mm pitch 63 deg angled elastomer	Silicon Rubber
5	IC Guide 37.5mm x 37.5mm 36x36 1mm pitch	PEEK Ceramic filled
6	Test PCB for 37.5x37.5mm, 36x36 1mm pitch CCGA1272	FR4 High temp
7	Actel 1272 pin CCGA	
8	Compression Plate 40mm IC	7075-T6 Aluminum Alloy
9	#0-80 Shoulder Screw, 2.29mm thread length	Stainless Steel (303)
10	Swivel Socket Lid 40mm IC	7075-T6 Aluminum Alloy
11	Insulation Plate 40mm IC	FR4 Standard
12	Ghz Backing Plate 40mm IC	7075-T6 Aluminum Alloy
13	#0-80 X .625 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
14	Compression Screw, M30	7075-T6 Aluminum Alloy

### Description: GHz elastomer socket for Actel 1272 CCGA

Primary dimension units are millimeters. Secondary dimension units are [inches].

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.

 <b>SG-CGA-6002 Specification</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 98.96	STATUS: Released	SHEET: 5 OF 5	REV. A
		DRAWN BY: M. Raske	SCALE: 2:1	
		FILE: SG-CGA-6002 Dwg	DATE: 02/23/2016	