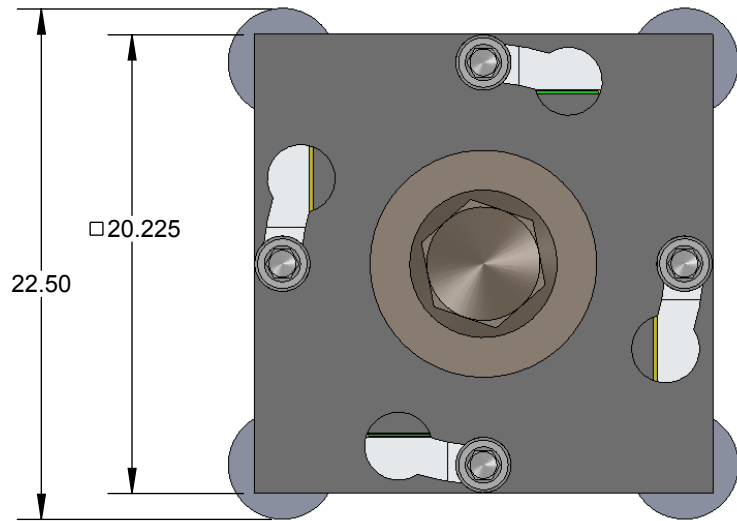


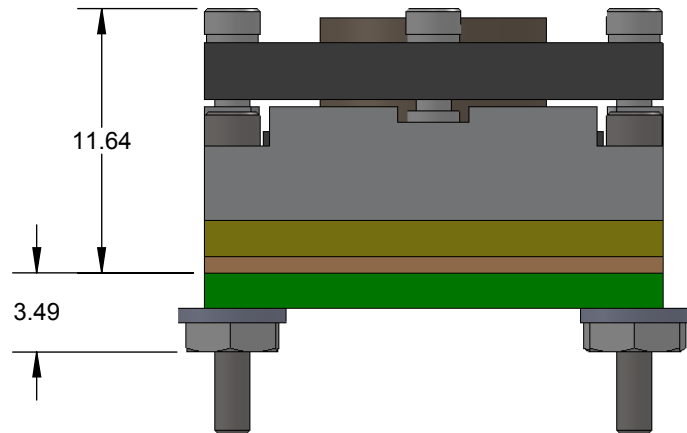
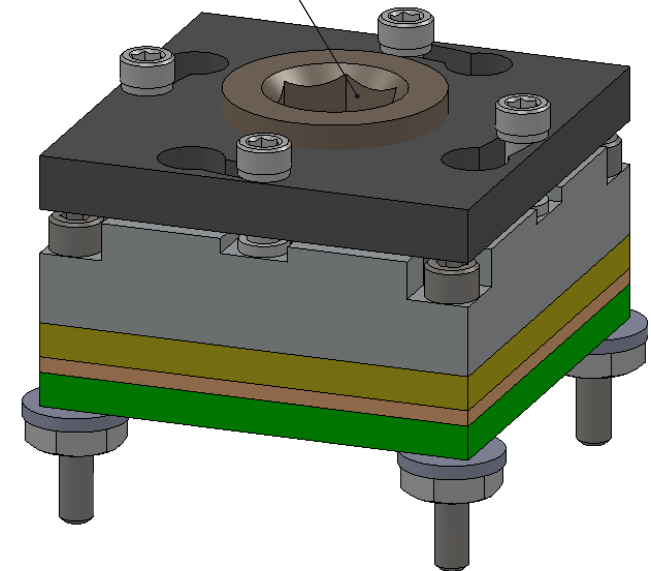
# GHz LGA Socket - Direct mount, solderless

## 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
- Easily removable swivel socket lid



Recommended torque = 2.0 in-lbs



## Description: Socket Specification

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-LGA-6001 Drawing



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

Material: N/A  
Finish: N/A  
Weight: 9.94

STATUS: Released

ENG: S. Faiz

FILE: SG-LGA-6001 Dwg

SHEET: 1 OF 4

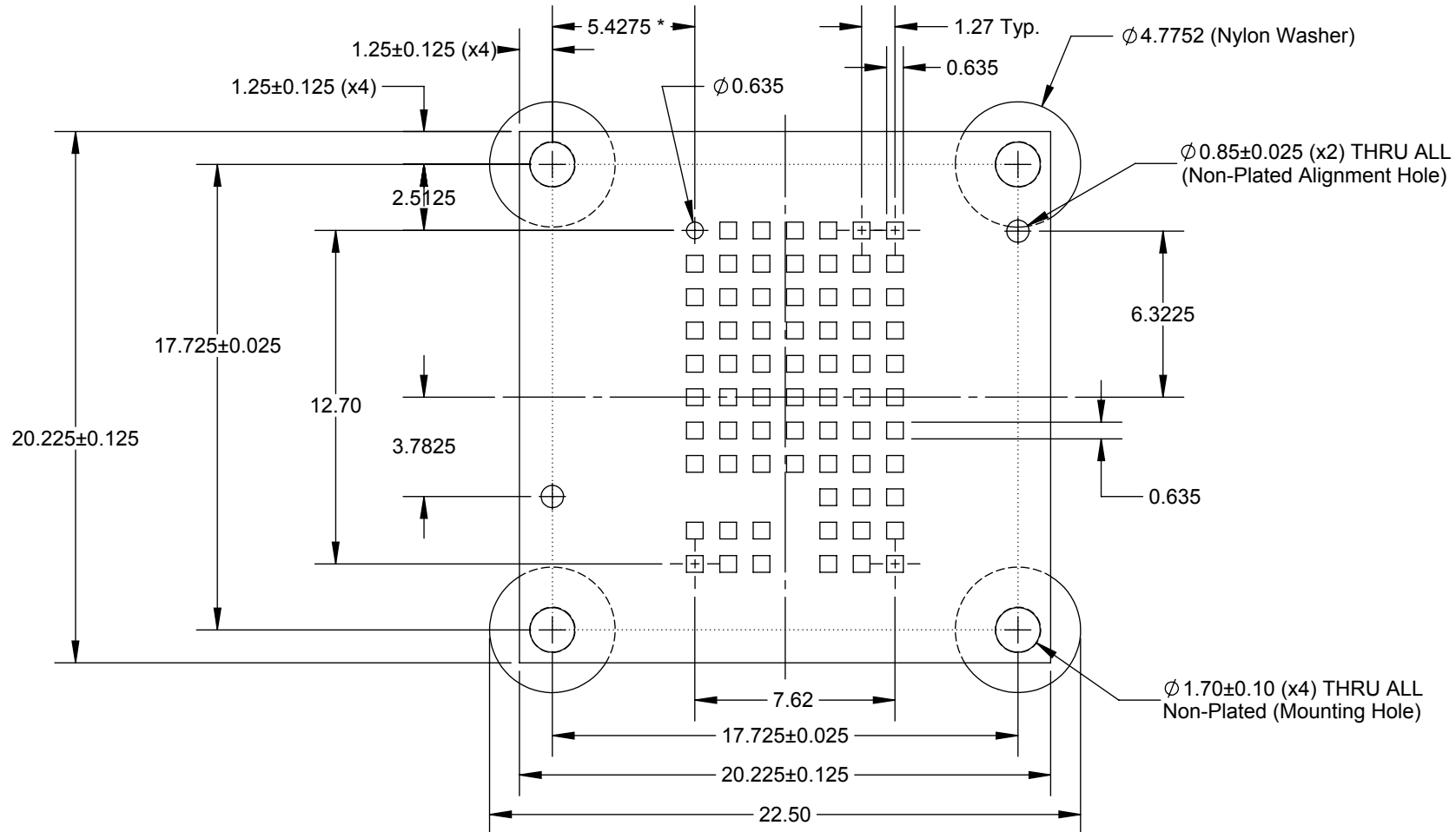
DRAWN BY: M. Raske

DATE: 11/20/2013

REV. B

SCALE: 3:1

**\* Note: LGA pattern is not symmetrical with respect to the mounting holes. It is offset 0.375mm to the right of center.**




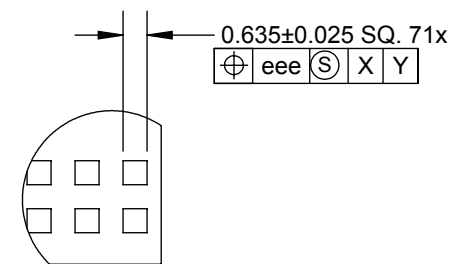
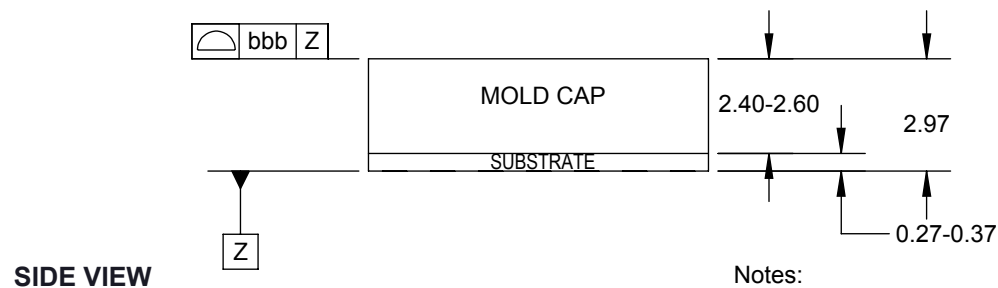
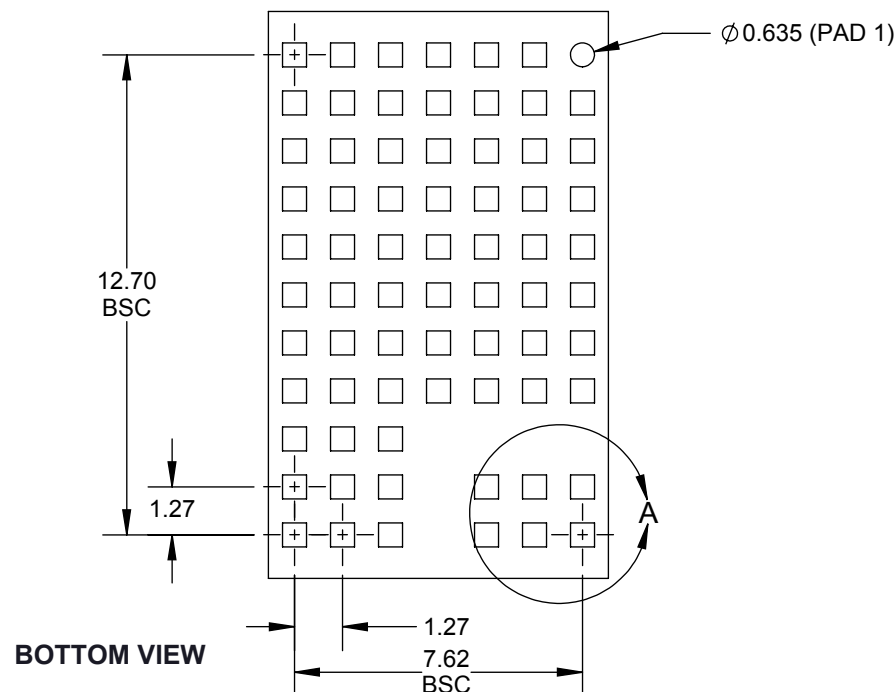
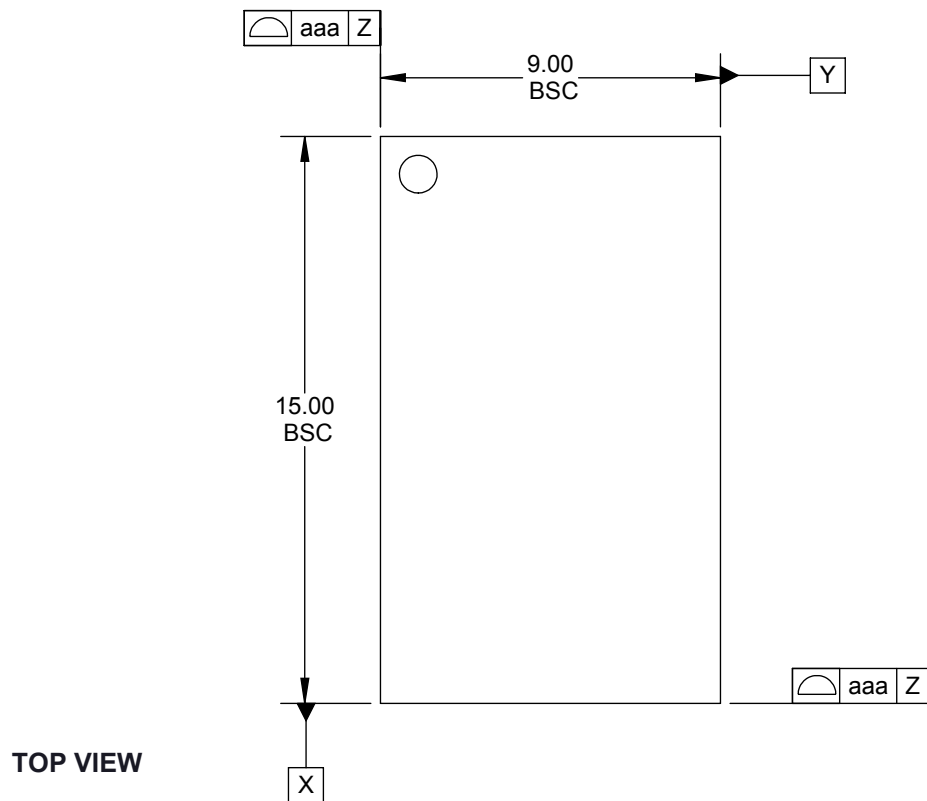
**Target PCB Recommendations**  
**Total thickness: 1.6mm min.**  
**Plating: Gold or Solder finish**  
**PCB Pad height: same or higher than solder mask**

## Description: Recommended PCB Layout

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

**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-LGA-6001 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 9.94	STATUS: Released ENG: S. Faiz FILE: SG-LGA-6001 Dwg	SHEET: 2 OF 4 DRAWN BY: M. Raske DATE: 11/20/2013	REV. B SCALE: 4:1

**Notes:**

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
2. ALL DIMENSIONS ARE IN MILLIMETERS
3. LAND DESIGNATION PER JESD MO-222, SPP-010 AND SPP-020
4. DETAILS OF PAD #1 IDENTIFIER ARE OPTIONAL, BUT MUST BE LOCATED WITHIN THE ZONE INDICATED. THE PAD #1 IDENTIFIER MAY BE EITHER A MOLD OR MARKED FEATURE
5. PRIMARY DATUM -Z- IS SEATING PLANE
6. THE TOTAL NUMBER OF PADS: 71

SYMBOL	TOLERANCE
aaa	0.15
bbb	0.10
eee	0.05

**Description: Compatible LGA**

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-LGA-6001 Drawing**

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

Material: N/A  
Finish: N/A  
Weight: 9.94

STATUS: Released

ENG: S. Faiz

FILE: SG-LGA-6001 Dwg

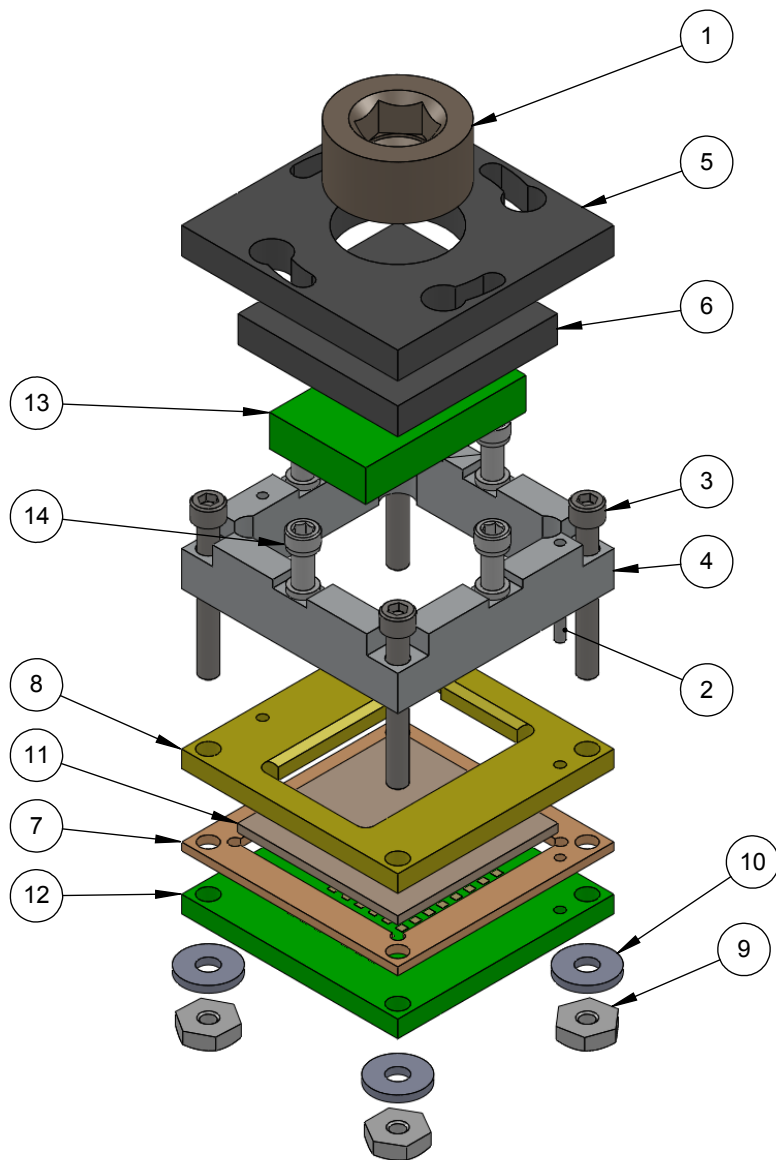
SHEET: 3 OF 4

DRAWN BY: M. Raske

DATE: 11/20/2013

REV. B

SCALE: 5:1




ITEM NO.	DESCRIPTION	Material
1	Compression Screw M10	7075-T6 Alumium Alloy
2	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
3	#0-80 x 0.5, SH Cap Screw	Alloy Steel
4	Socket Base	7075-T6 Aluminum Alloy
5	Socket Lid 15mm	7075-T6 Aluminum Alloy
6	Compression Plate 15mm	7075-T6 Aluminum Alloy
7	Elastomer Guide	Ultem 1000
8	IC Guide for 9x15mm; 1.27mm, 7x11 array LGA package	Torlon 4203
9	Nut, #0-80, SS	Stainless Steel (18-8)
10	Washer, #0 x .025", Nylon	Nylon 6/6
11	63 deg angled elastomer	Silicon Rubber
12	Test PCB for 9x15mm; 1.27mm, 7x11 array LGA package	Custom Plastic
13	Test chip for 9x15mm; 1.27mm, 7x11 array LGA package	Custom Plastic
14	#0-80 Shoulder Screw, 0.062" thread length	Stainless Steel (303)

## Description: Socket Assy, Backing Plate

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	11/20/13	MR	Original
B	07/23/14	DH	Changed IC guide material to Torlon

<b>SG-LGA-6001 Drawing</b>		STATUS: Released		SHEET: 4 OF 4		REV. B	
	Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 9.94		ENG: S. Faiz		DRAWN BY: M. Raske	
		FILE: SG-LGA-6001 Dwg		DATE: 11/20/2013		SCALE: 2:1	