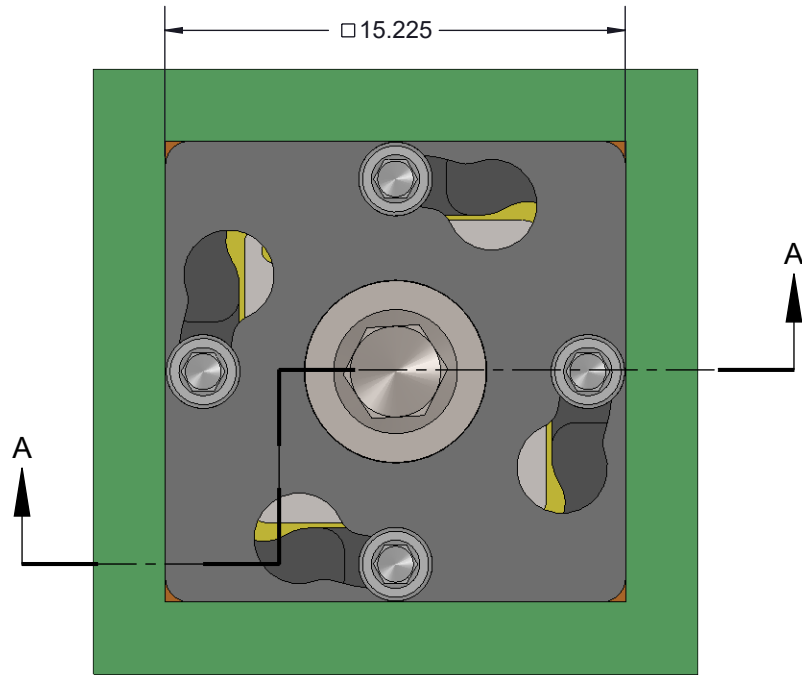
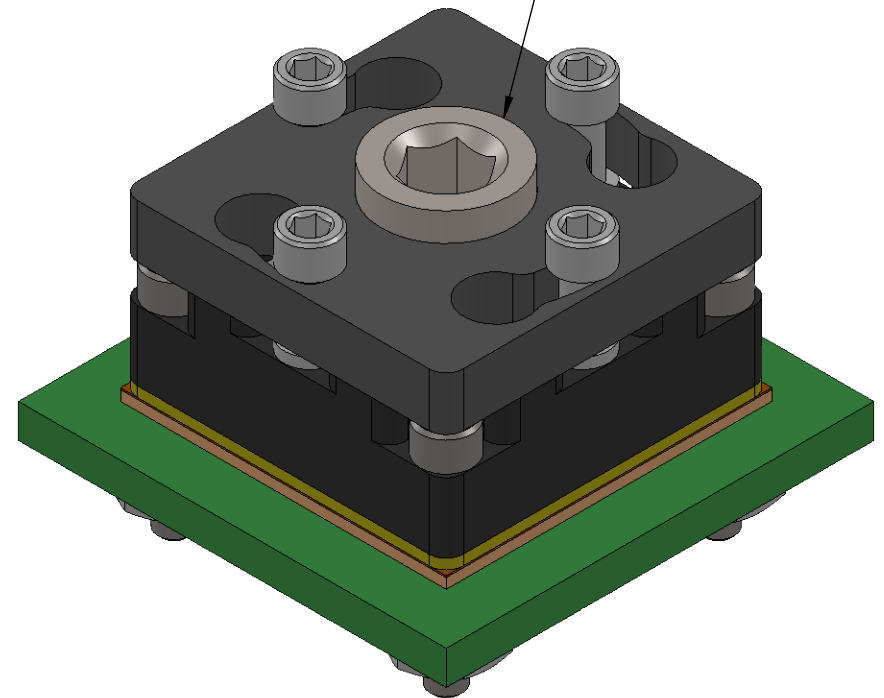


# GHz BGA Socket - Direct mount, solderless

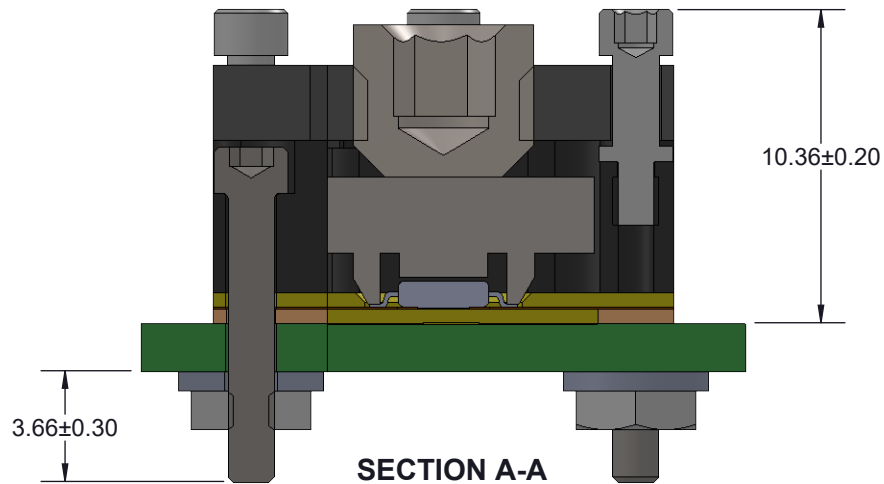
## Features

- 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

**RECOMMENDED TORQUE: 1 IN-OZ**



**TOP VIEW**



**Description: SG-SO8 3mm Body 4.905mm T2T**

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-SOIC-3004 Drawing



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

Material: N/A  
Finish: N/A  
Weight: 6.37

STATUS: Released

ENG: B. Schatz

FILE: SG-SOIC-3004 Dwg

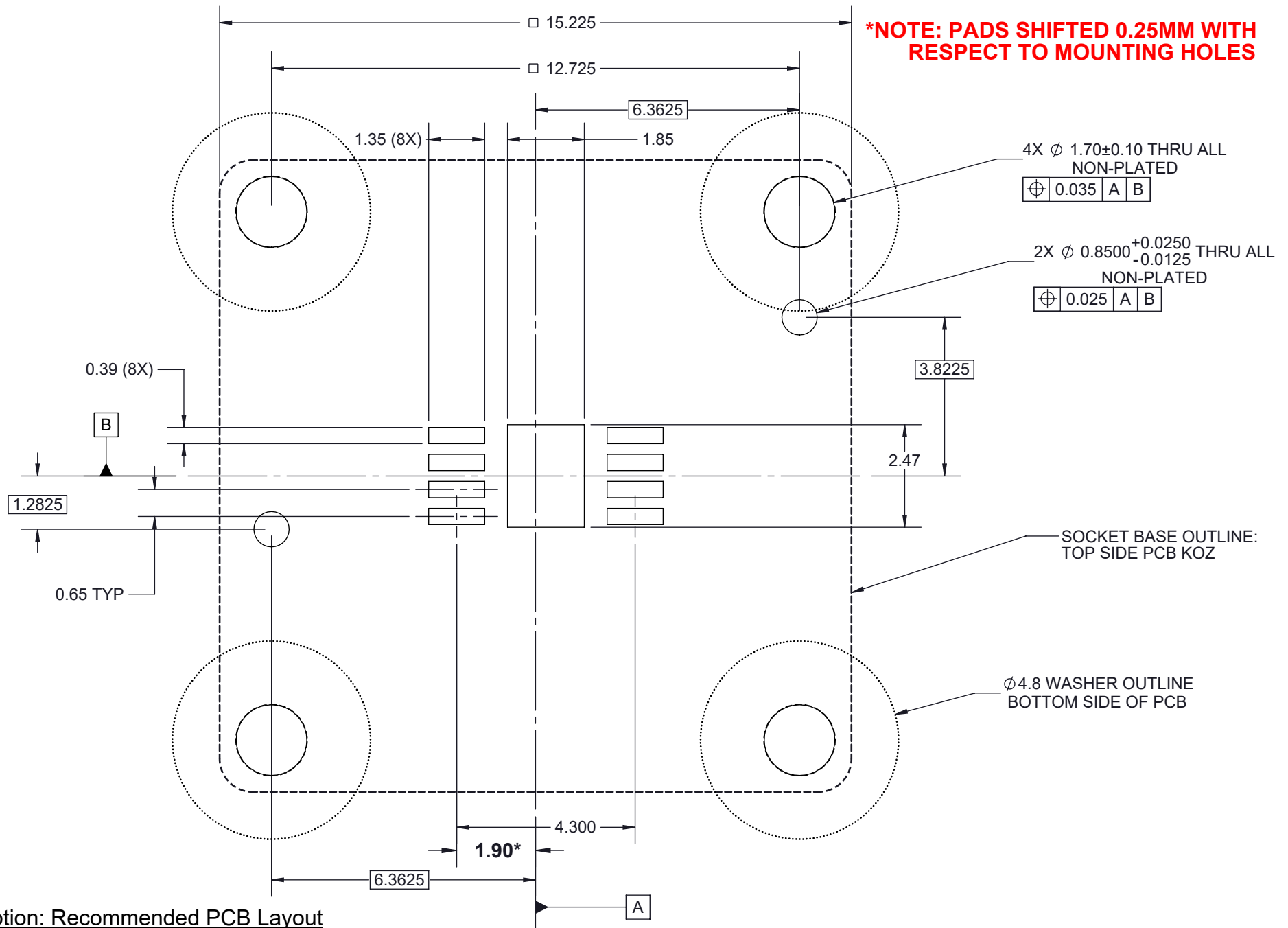
SHEET: 1 OF 4

DRAWN BY: M. Raske

DATE: 02/14/2014

REV. C

SCALE: 4:1



## 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.

### SG-SOIC-3004 Drawing



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

Material: N/A  
Finish: N/A  
Weight: 6.37

STATUS: Released

ENG: B. Schatz

FILE: SG-SOIC-3004 Dwg

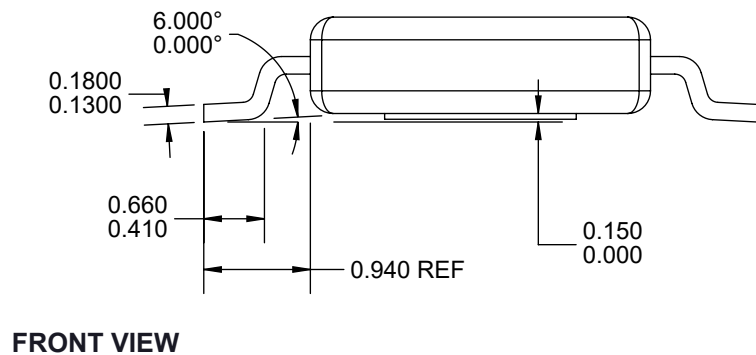
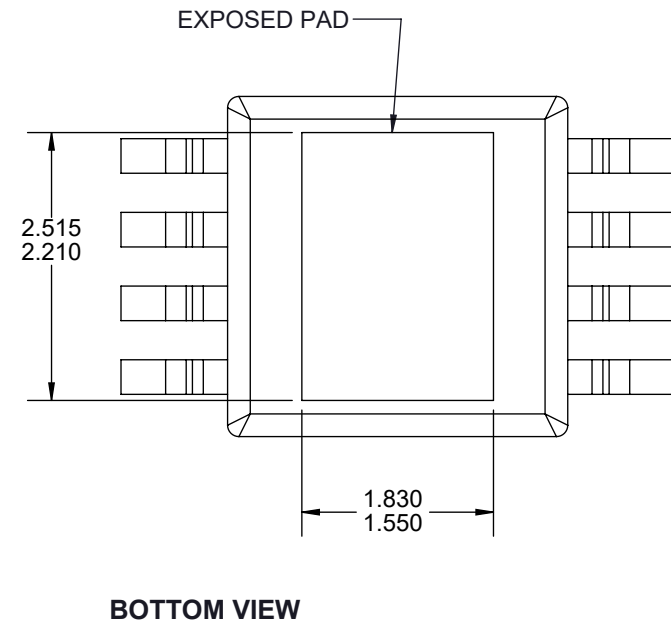
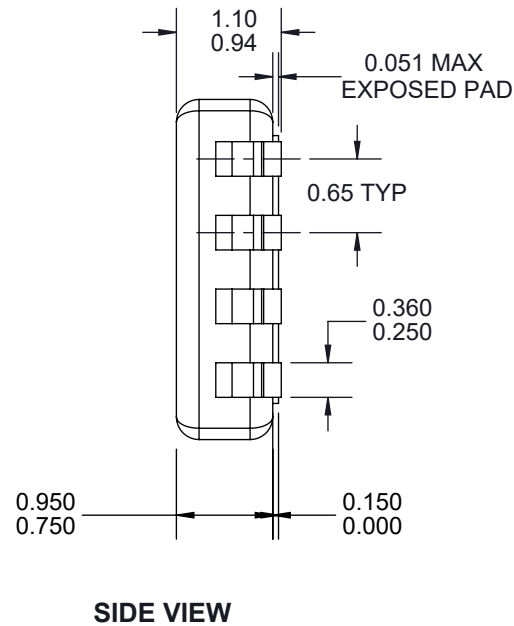
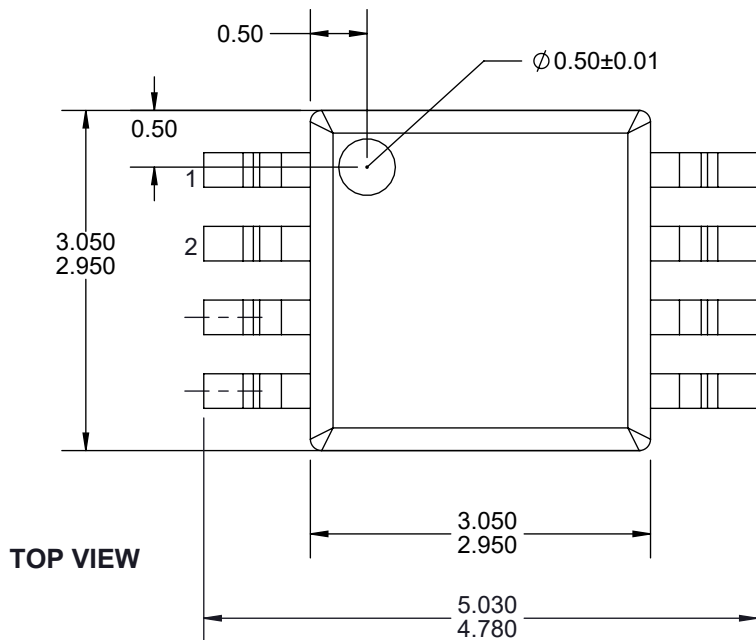
SHEET: 2 OF 4

DRAWN BY: M. Raske

DATE: 02/14/2014

REV. C

SCALE: 8:1




Dimensions are in millimeters.

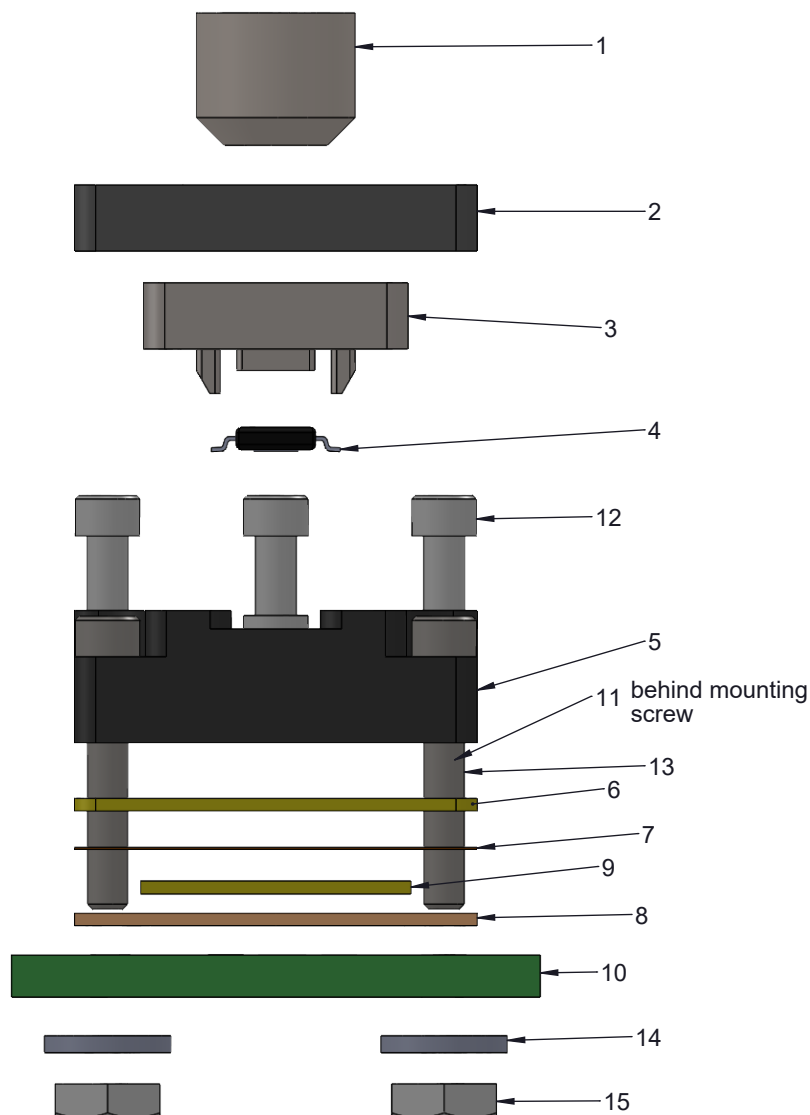
## Description: Compatible Device

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.

- Interpret dimensions and tolerances per ASME Y14.5M-1994.

<b>SG-SOIC-3004 Drawing</b>  Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 6.37	STATUS: Released ENG: B. Schatz FILE: SG-SOIC-3004 Dwg	SHEET: 3 OF 4 DRAWN BY: M. Raske DATE: 02/14/2014	REV. C SCALE: 15:1




ITEM NO.	Description	Material
1	Compression Screw M6x1	Stainless Steel (18-8)
2	Socket Lid	7075-T6 Aluminum Alloy
3	Compression Plate SO8 3mm body 4.905mm T2T	PEEK
4	CFE SO8	Material <not specified>
5	Socket Base	7075-T6 Aluminum Alloy
6	IC guide SO8 3mm body	Torlon 4203
7	Lead guide SO8 4.905 T2T	Kapton Polyimide/Cirlex
8	Elastomer Guide 10x10mm	Ultem
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	Test PCB SO8 3mm Body 4.905mm T2T	FR4 High temp
11	Dowel Pin, 1/32" x 3/16", SS	Chrome Stainless Steel
12	#0-80 Shoulder Screw, 1.59mm thread length	Stainless Steel (303)
13	#0-80 X .375 LG, SOC HD CAP SCREW, ALLOY STL, BLK OXIDE	Alloy Steel
14	Washer, #0 x .025", Nylon	Nylon 6/6
15	Nut, #0-80, SS	Stainless Steel (18-8)

## Description: Socket, Backing Plate Detail

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-SOIC-3004 Drawing</b> Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 6.37	STATUS: Released	SHEET: 4 OF 4	REV. C
		ENG: B. Schatz	DRAWN BY: M. Raske	SCALE: 3.5:1
		FILE: SG-SOIC-3004 Dwg	DATE: 02/14/2014	