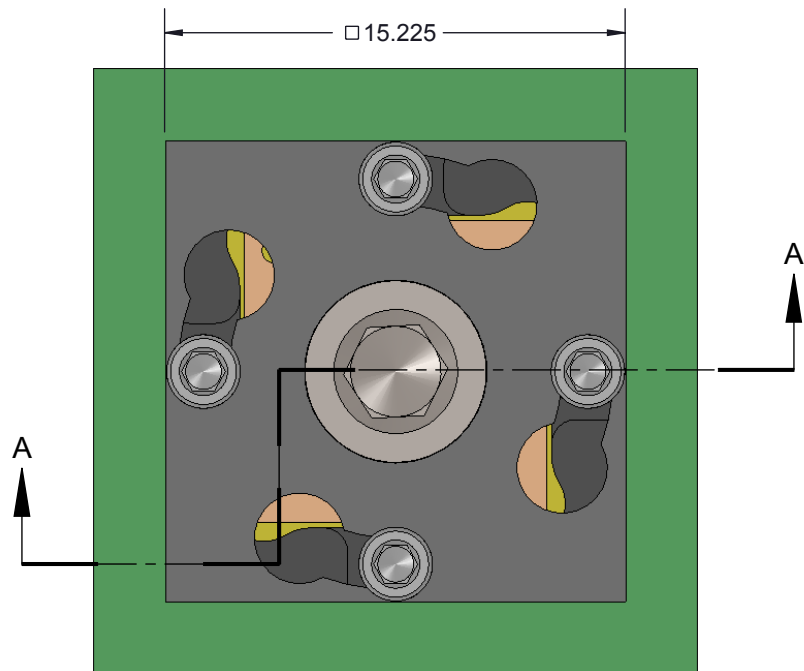
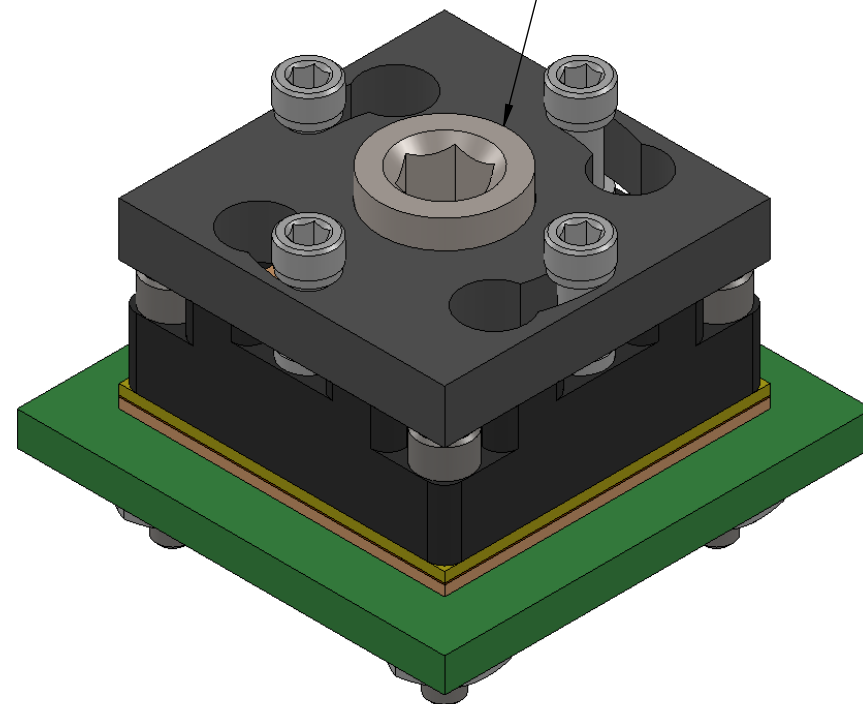


GHz BGA Socket - Direct mount, solderless

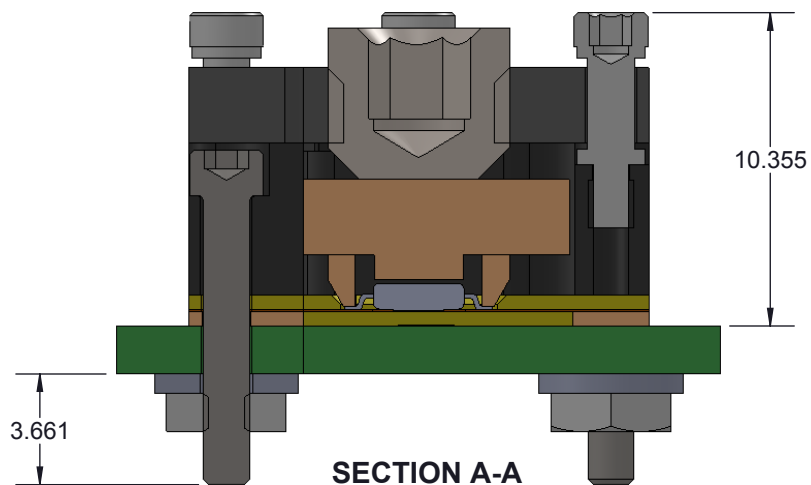
Features

- 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: 6 IN-OZ



TOP VIEW




SECTION A-A

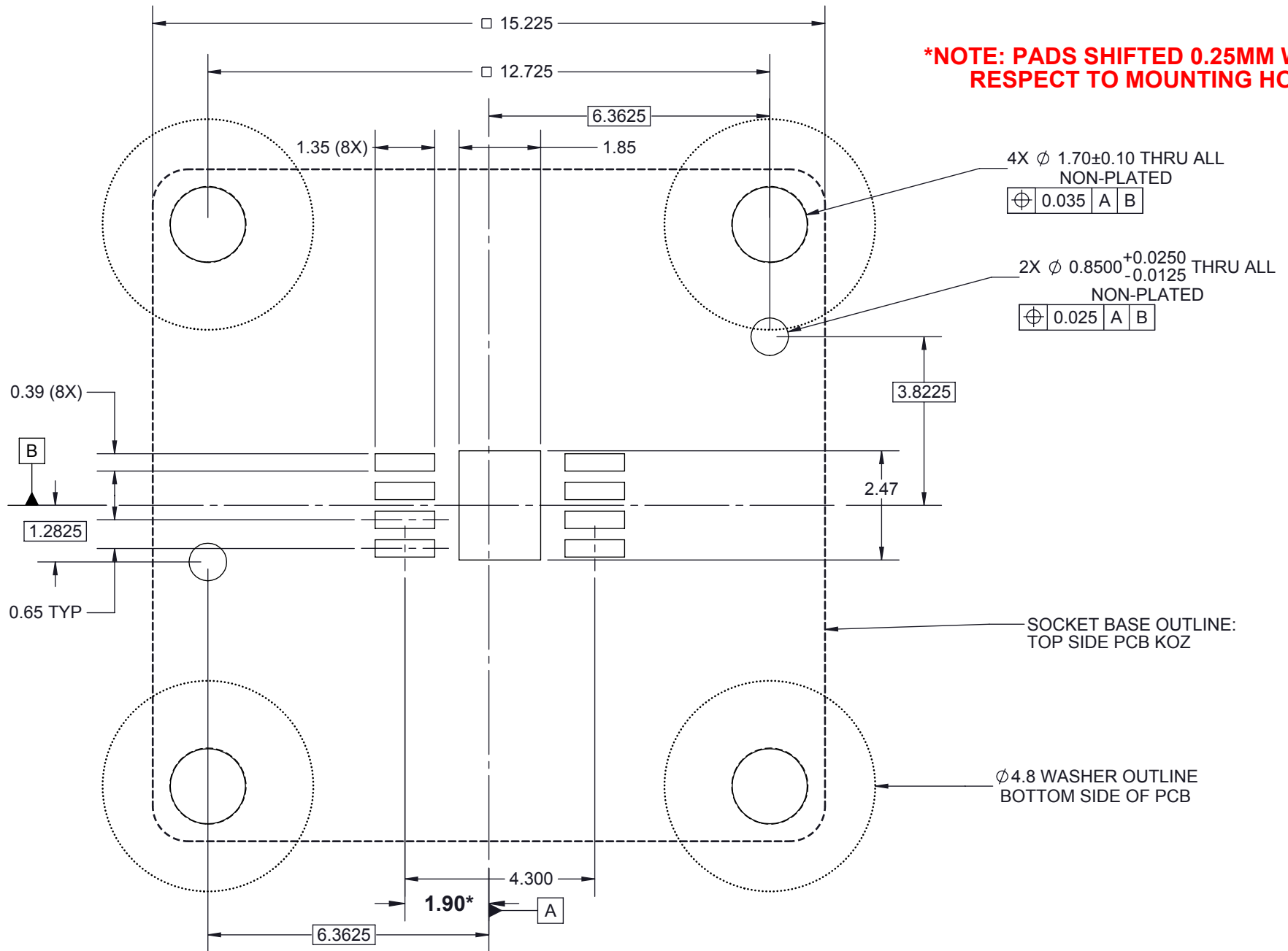
Description: SG-SO8 3mm Body 4.905mm T2T

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

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

 <p>SG-SOIC-3004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com</p>	<p>Material: N/A Finish: N/A Weight: 6.47</p>	<p>STATUS: Released</p>	<p>SHEET: 1 OF 4</p>	<p>REV. B</p>
	<p>ENG: B. Schatz</p>	<p>DRAWN BY: M. Raske</p>	<p>SCALE: 4:1</p>	<p>DATE: 02/14/2014</p>


***NOTE: PADS SHIFTED 0.25MM WITH RESPECT TO MOUNTING HOLES**

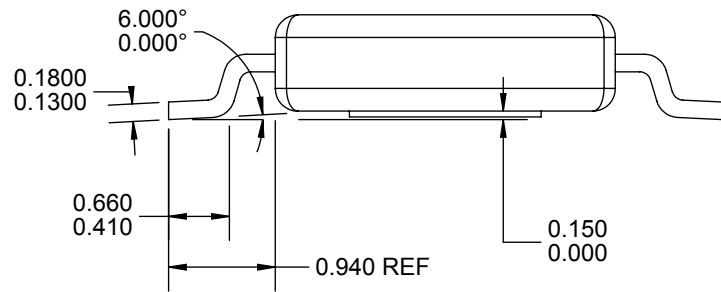
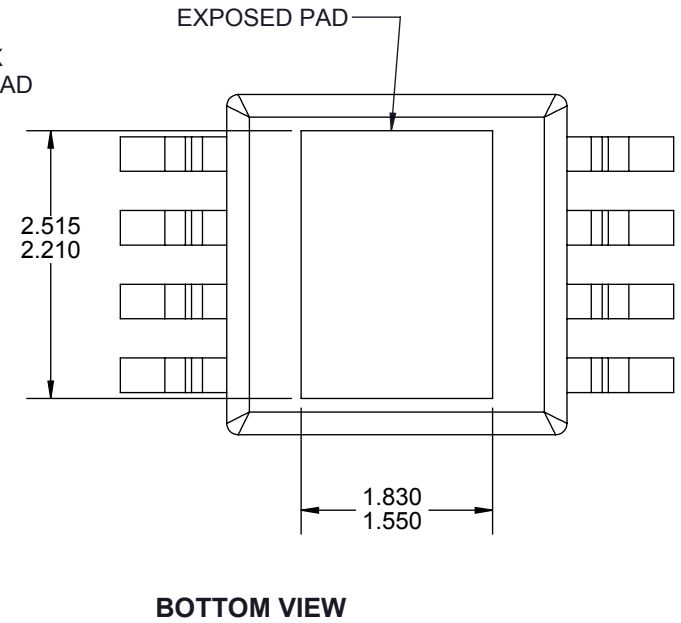
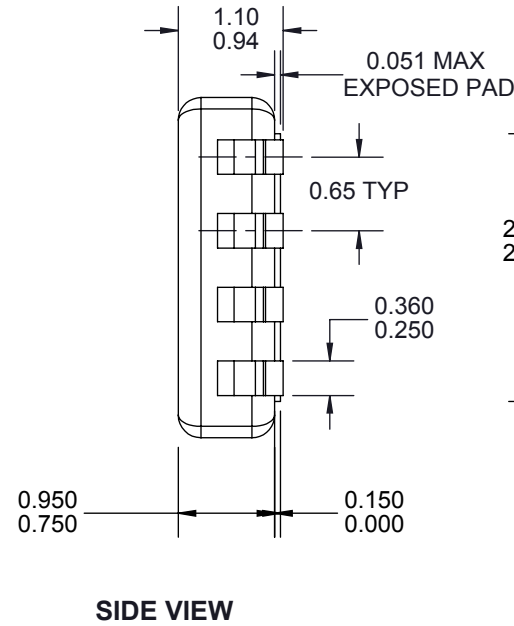
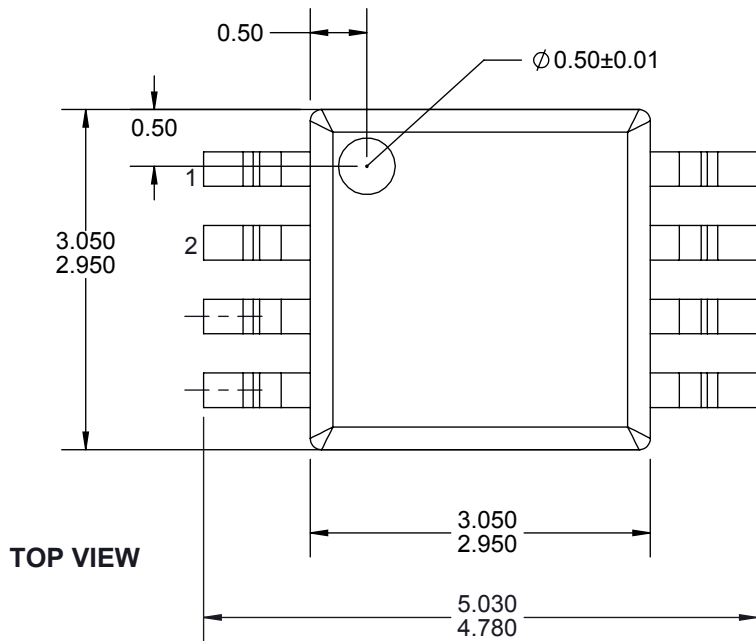


Description: Recommended PCB Layout

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: 6.47	STATUS: Released ENG: B. Schatz FILE: SG-SOIC-3004 Dwg	SHEET: 2 OF 4 DRAWN BY: M. Raske DATE: 02/14/2014	REV. B SCALE: 8:1




Dimensions are in millimeters.

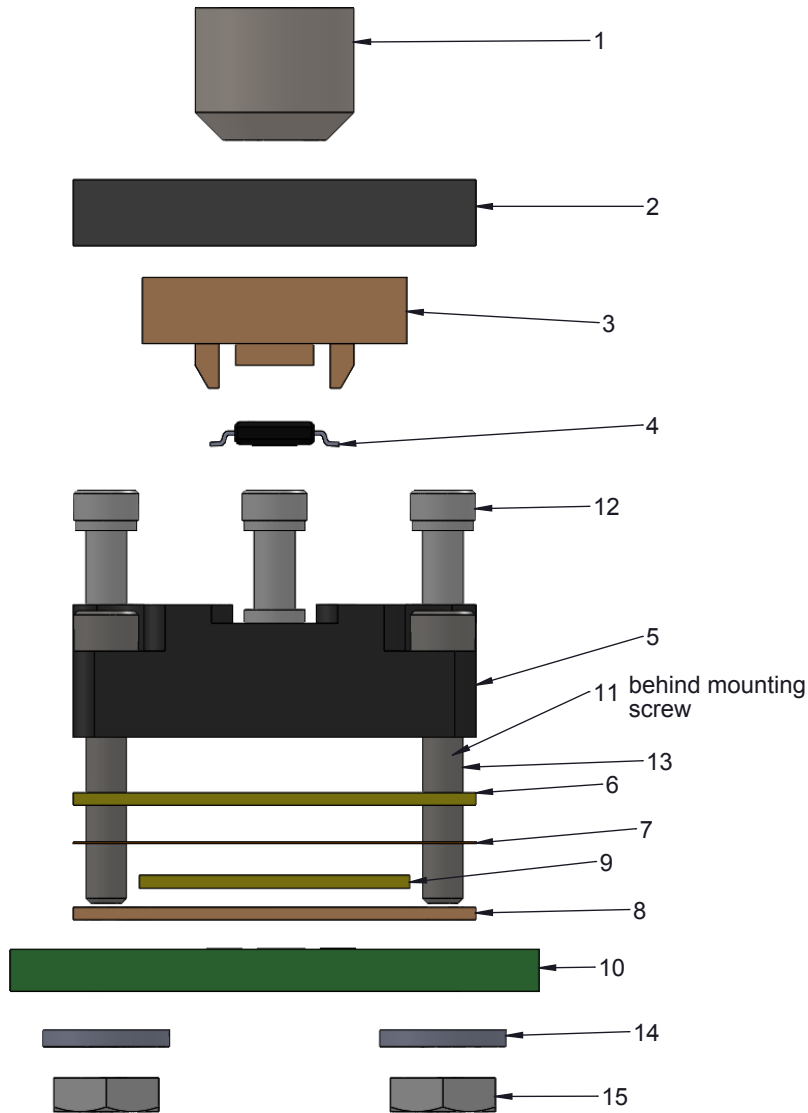
1. Interpret dimensions and tolerances per ASME Y14.5M-1994.

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.

 SG-SOIC-3004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 6.47	STATUS: Released	SHEET: 3 OF 4	REV. B
		ENG: B. Schatz	DRAWN BY: M. Raske	SCALE: 15:1
		FILE: SG-SOIC-3004 Dwg	DATE: 02/14/2014	




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	Ultem 1000
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 symetrically 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, 0.062" 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.

Rev	Date	Initials	Description
A	02/14/14	MR	Original
B	07/16/14	DH	Changed IC Guide material to torlon

 SG-SOIC-3004 Drawing Ironwood Electronics, Inc. Tele: (800) 404-0204 www.ironwoodelectronics.com	Material: N/A Finish: N/A Weight: 6.47	STATUS: Released ENG: B. Schatz FILE: SG-SOIC-3004 Dwg	SHEET: 4 OF 4 DRAWN BY: M. Raske DATE: 02/14/2014	REV. B SCALE: 3.5:1
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