

# RFSA3513

## Product Qualification Report SA3513-PQ030, Revision A

**Product Description:** 5-bit Digital Step Attenuator

**Package Type:** 3.0mm x 3.0mm QFN

**Process Technology:** SOI CMOS

**Qualification Number:** 14-QUAL-2317

**Date issued:** 05/28/2014

FOR IMPORTANT INFORMATION  
REGARDING THESE MATERIALS  
INCLUDING DISCLAIMERS  
REGARDING USE IN CERTAIN  
APPLICATIONS, SEE STANDARD  
DISCLAIMER FOR PRODUCT  
DOCUMENTS

Test Name	Test Standard and Conditions	# Samples x # Lots	Test Results
High Temperature Operating Life	JESD22-A108 125°C, 1000 hours	25x1 lot	Pass
Steady State Temperature Humidity Bias Life Test	JESD22-A101 85°C / 85% RH, 1000 hours	22x1 lot	Pass
ESD Human Body Model	JS-001-2010	3x1 lot	Class 1C
ESD Charged Device Model	JESD22-C101	3x1 lot	Class C3
Moisture Sensitivity Level	J-STD-020 3x Cumulative Reflow at 260°C MSL1	25x1 lot	Pass
Temperature Cycling	JESD22-A104 Condition B: -55° to +125°C Soak Mode 1, 700 Cycles Preconditioning per JESD22-A113 MSL1	25x1 lot	Pass
High Temperature Storage	JESD22-A103 150°C, 1000 hours	22x3 lots	Pass
Accelerated Moisture Resistance – Unbiased HAST	JESD22-A118 130°C / 85% RH / 230 kPa, 96 hours	30x3 lots	Pass
Solderability	JESD22-B102 Condition A: 1 Hour Steam Age Pb-Free Process, Method 1: Dip and Look	30x3 lots	Pass
Die Shear	MIL-STD-883, Method 2019	10x3 lots	Pass
Wire Bond Shear	JESD22-B116	10x3 lots	Pass
Wire Bond Pull	MIL-STD-883, Method 2011	10x3 lots	Pass
<b>Conclusion</b>	<b>This part meets RFMD's product qualification requirements</b>		

Sample size and lot quantities reported are the minimum required for this qualification.