Product Qualification Report

AUIRS2092S

Audio IC

Description

This product qualification report describes the characteristics of the product with respect to quality and reliability.

The qualification sample selection was done on production lots which were manufactured and tested on standard production processes and meet the defined requirements.

The qualification test results of those products as outlined in this document are based on **AEC** for target applications and may reference existing qualification results of similar products. Such referencing is justified by the structural similarity of the products.

Qualification Assessment

Qualified according to **AEC Q100** and assessed as PASS

For further information about comparable products, please contact the nearest Infineon Technologies office (www.infineon.com).

Qualified 2016

AUIRS2092STR
PG-DSO-16
MSL 3, 260°C

Electrical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
High Temperature Operating Life JESD22 A108	HTOL	Tj = 125°C + Bias** **Or** Tj = 150°C + Bias**	1000h 500 h	3 x 77	0 / 231	PASS
Biased Highly Accelerated Stress Test JESD22 A110	HAST *	Ta = 130°C RH = 85% + Bias	96 h	3 x 77	0 / 231	PASS
ESD (HBM) AEC Q100	HBM	H1B (750V)				
ESD (CDM) AEC Q100	CDM	C3A (750V)				
Latch-Up AEC Q100	LU	Class II, Level B				

Environmental Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Pre-conditioning (SMD device only) J-STD020 / JESD22 A113	PC	MSL and 3x reflow 260°C				PASS
High Temperature Storage Life JESD22 A103	HTSL	Ta = 175°C*** **Or** Ta = 150°C***	500 h 1000 h	1 x 45	0 / 45	PASS
Temperature Cycling JESD22 A104	TC*	-55°C to +150°C*** **Or** -65°C to +150°C***	1000 cyc 500 cyc	3 x 77	0 / 231	PASS
Autoclave*** JESD22 A102 **Or** Unbiased Highly Accelerated Stress Test*** JESD22 A118	AC* UHAST*	Ta=121°C RH=100% Ta = 130°C RH = 85%	 96h 	3 x 77	0 / 231	PASS

Notes:

* SMD devices reliability stress tests are performed after preconditioning test (PC) according to JESD22.

** According to product datasheet Tj maximum rating

*** Selection based on equipment and hardware availability

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Document reference

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