ESD TEST REPORT

Field-Induced Charged-Device Model
AEC-Q101-005-A

AEC Standard, Method AEC-Q101-005-A is an ESD test using Field-Induced Charged-Device Model, three positive and three negative pulses applied to the devices per customer's specification with a minimum of 1 second cool down between pulses.

Customer : **Alpha & Omega Semiconductor (Shanghai), Ltd.**

Address: Building 8 & 9, No. 91, Lane 109, Rong Kang Road, Songjiang Export Processing Zone, Zone B, # 888 Song Zheng Highroad, Shanghai

Device Information

Part No. :	AONR36321	Sample Size :	10pcs
Package Type :	DFN3.3x3.3_8L_EP1_S	Pin Count :	8
Lot No. :	NA005	Date Code :	-
VDD Domains :	D	VSS Domains :	S

Test Equipment

Tester1 :	ZAPMASTER MK.2 SE	Serial No. :	0508317
Calibration Date :	Jan 12th 2023	Expiration Date :	Jan 11th 2024
Tester2 :	Orion Robotic CDM Test System	Serial No. :	0806294
Calibration Date :	Jan 13th 2023	Expiration Date :	Jan 12th 2024

Environmental Condition

Temperature :	22.1°C	Humidity :	30% RH
Submit date :	Dec 12th 2023	Complete date :	Dec 12th 2023

Curve Trace Criteria

Pin Combinations			Force Voltage	Limit current
D	Vs.	S & G	-30V ~ +30V	50μA

Curve Trace Results Within ±10% range.

Eurofins EAG Materials Science China 欧陆埃文思材料科技(上海)有限公司 1 检验检测专用章

Stress Summary

CDM			
Sample No.	Voltage Level	Process	Spot Test Results* (Within 10μA @ 20V between G and D/S)
33#	±2kV	All Pins Done	PASS
34#		All Pins Done	PASS
35#		All Pins Done	PASS
36#		All Pins Done	PASS
37#		All Pins Done	PASS
38#		All Pins Done	PASS
39#		All Pins Done	PASS
40#		All Pins Done	PASS
41#		All Pins Done	PASS
42#		All Pins Done	PASS

Test Result*

Model	Pin Combinations	ESD Sensitivity Pass*: **2kV**	V Class: **C3**
CDM	ALL PINS DONE	±2kV	AEC - Q101-005-A Class C0a: <125V Class C0b: 125V to <250V Class C1: 250 to <500 V Class C2a: 500 to <750 V Class C2b: 750 to <1000 V Class C3: ≥1000V

***Note: Results will be updated based on customer final electrical test results.**

Test Engineer: Wenping Yan	Date: Dec 12th 2023
Approved by FA Manager: 李春	Date: Dec 12th 2023

Recommendations

Eurofins EAG Shanghai certifies that above tests have been performed in accordance to the requirements stated above and per the customer purchase order and applicable documents.

Eurofins EAG Shanghai recommends electrical testing as a validation of reported results. Curve Trace criteria was utilized to specify a pass or fail. Industry standards require the device to be tested functionally at post stress and should continue to meet all electrical parameters as per the data sheet.

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