

JEDEC IC Device Semiconductor Component Qualification Summary

Supplier: onsemi

Supplier PN: E8310-0-101A49-AG

Customer PN:

General Specification: JESD47, JESD22



Product Description: Ezairo 8310

Supplier Fab info: Global Foundries, Macronix

Family Type: Hearing SiP

Supplier Assy info: onsemi Burlington

Reason for Qual: Compilation of qualification data

Reliability Report Review: Oct 19, 2026

#	Test	Test Conditions	Reference	Comments	# Lots	S.S.	Results Fail/Total	Comments/ Test Results
Test Group A- Accelerated Environment Stress Tests								
A1	PC	Moisture Preconditioning: (Test @R): MSL3 260°C	JESD22 A113 J-STD-020	Performed on surface mount devices prior to THB, UHAST & TC	3	77	0/693	
A2	THB	Temp Humidity Bias: (Test @R) Ta=85°C/85% RH for 1008hrs	JESD22 A101		3	77	0/231	
A3	UHAST	Unbiased Highly Accelerated Stress Test: (Test @R) Ta=130°C/85% RH for 96hrs	JESD22 A118		3	77	0/231	
A4	TC	Temp Cycle: (Test @R) Ta= -40°C to +125°C for 850 cycles	JESD22 A104		3	77	0/231	
A6	HTSL	High Temp Storage Life (Test @R) Ta=125°C for 1008hrs	JESD22 A103		3	77	0/231	
Test Group B- Accelerated LifeTime Simulation Tests								
B1	HTOL	High Temp Op Life: (Test @R) Ta=125°C for 1008 hrs	JESD22 A108		3	77	0/231	Generic data from single chip packages
B3	EDR	NVM Endurance, Data Retention, and Operational Life: (Test @R)	JESD22-A117		3	77	0/231	Generic data from single chip packages
Test Group C- Package Assembly Integrity Tests								
C3	SD	Solderability	J-STD-002		3	5	Pass	
C4	PD	Physical Dimension: Critical Cpk>1.67	JESD22 B100		3	10	Pass	
C5	SBS	Solder Ball Shear	JESD22 B117		3	10	Pass	
Test Group E- Electrical Verification								
E1	TEST	Pre and Post Stress Electrical Test	User/Supplier Spec		All	All	Pass	
E2	HBM	Electrostatic Discharge, Human Body Model: (Test @ R)	JS-001		1	3	Pass	HBM=2000V
E3	CDM	Electrostatic Discharge, Charge Device Model: (Test @ R)	JS-002		1	3	Pass	CDM=250V
E4	LU	Latch-up: (Test @ R) Class II	JESD78		1	3	Pass	LU=+/-100mA

NOTES: Not recommended for Military, Medical Life Critical or Aerospace
Not for Automotive, Auto device may be available