

Overview of Available AEC-Q100 Compliant Tests

We provide comprehensive one-stop testing for critical automotive electronic components.

Drawing on our extensive experience, each project is executed with advanced technical expertise and accuracy.

TEST GROUP	STRESS		TEST METHOD
Test Group A Accelerated Environment Stress Tests	PC	Preconditioning	JESD J-STD-020 JESD22-A113
	THB	Temperature-Humidity-Bias	JESD22-A101
	HAST	Biased HAST	JESD22-A110
	AC	Autoclave	JESD22-A102
	UHA	Unbiased HAST	JESD22-A118
	TH	Temperature-Humidity (without Bias)	JESD22-A101
	TC	Temperature Cycling	JESD22-A104
	PTC	Power Temperature Cycling	JESD22-A105
	HTSL	High Temperature Storage Life	JESD22-A103
Test Group B Accelerated Lifetime Simulation Tests	HTOL	High Temperature Operating Life	JESD22-A108
	ELFR	Early Life Failure Rate	AEC Q100-008
	EDR	NVM Endurance, Data Retention, and Operational Life	AEC Q100-005
Test Group C Package Assembly Integrity Tests	WBS	Wire Bond Shear	AEC Q100-001 AEC Q003
	WBP	Wire Bond Pull	MIL-STD883 Method 2011 AEC Q003
	SD	Solderability	JESD22-B102 JEDEC J-STD-002
	PD	Physical Dimensions	JESD22-B100 JESD22-B108
	SBS	Solder Ball Shear	AEC Q100-010
	LI	Lead Integrity	JESD22-B105
	BST	Bump Shear Test	JEDEC JESD22-B117 equivalent AEC Q003
Test Group E Electrical Verification Tests	HBM	Electrostatic Discharge Human Body Model	AEC Q100-002
	CDM	Electrostatic Discharge Charged Device Model	AEC Q100-011
	LU	Latch-Up	AEC Q100-004
	EMC	Electromagnetic Compatibility	SAE J1752/3
	SC	Short Circuit Characterization	AEC Q100-012
	MSL	Moisture Sensitivity Level	J-STD 020
	SD	Solderability	JESD22-B102
	Lead (Pb)	Resistance to Soldering Heat	AEC Q005
	RSH		JESD22-B106 JESD22-A111
	Free	Tin Whisker	JESD201
	Tin Whisker		JESD22-A121
Test Group G Cavity Package Integrity Tests	MS	Mechanical Shock	JESD22-B104 JESD22-B110
	VFV	Variable Frequency Vibration	JESD22-B103
	DROP	Package Drop	-
	LT	Lid Torque	MIL-STD883 Method 2024
	DS	Die Shear	MIL-STD883 Method 2019

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