

Standard Type	File Name Fix	Rev	Document Title	Publish Date	Last Rev Age (yrs)	Active?
Stand-Alone Documents	AEC Charter	H	Component Technical Committee Charter	11-Jul-25	0	Y
	AEC Member Application Form	H	Membership Application – AEC Technical Committee	11-Jul-25	0	Y
	AEC Q001	D	Guidelines for Part Average Testing	9-Dec-11	14	
	AEC Q002	B1	Guidelines for Statistical Yield Analysis	12-Jan-12	14	
	AEC Q003	A	Guideline for Characterization of Integrated Circuits	18-Feb-13	13	
	AEC Q004	-	Automotive Zero Defects Framework	26-Feb-20	6	Y
	AEC Q005	A	Pb-Free Test Requirements	1-Jun-10	15	
	AEC Q006	B	Qualification Requirements for Components Using Copper (Cu) Wire Interconnections	30-Jun-25	0	Y
Board Level Reliability	AEC Q007 Base Document	-	Failure Mechanism Based Testing Guidelines for Components Mounted to a Printed Board	3/12/2024	2	Y
	AEC Q007-001	-	Board-Level Reliability Temperature Cycling Test Method	2/12/2024	2	
	AEC Q007-002	-	AEC-Q007-002 BLR Spreadsheets (PB, SMT, Change Matrix, Comments)	3/21/2024	2	
IC Qualification	AEC Q100 Base Document	J	Failure Mechanism Based Stress Test Qualification for ICs in Automotive Applications	11-Aug-23	2	Y
	AEC Q100-001	C	Wire Bond Shear Test (METHOD-001)	8-Oct-98	27	
	AEC Q100-002	E	Human Body Model Electrostatic Discharge Test	20-Aug-13	12	
	AEC Q100-004	D	IC Latch-Up Test	7-Aug-12	13	
	AEC Q100-005	D1	Non-Volatile Memory Program/Erase Endurance, Data Retention, and Operating Life Test	9-Jan-12	14	Y
	AEC Q100-007	B	Fault Simulation and Fault Grading	18-Sep-07	18	
	AEC Q100-008	A	Early Life Failure Rate (ELFR)	18-Jul-03	22	
	AEC Q100-009	B	Electrical Distributions Assessment	27-Aug-07	18	
	AEC Q100-010	A	Solder Ball Shear Test	18-Jul-03	22	
	AEC Q100-011	D	Charged Device Model (CDM) ESD Test	29-Jan-19	7	
	AEC Q100-012	-	Short Circuit Reliability Characterization of Smart Power Devices (12V Systems)	14-Sep-06	19	
Discrete Qualification	AEC Q101 Base Document	E	Failure Mechanism Based Stress Test Qualification for Discrete Semiconductors in Automotive Applications	1-Mar-21	5	Y
	AEC Q101-001	A	Human Body Model (HBM) Electrostatic Discharge (ESD)	18-Jul-05	20	
	AEC Q101-003	A	Wire Bond Shear Test	18-Jul-05	20	
	AEC Q101-004	-	Miscellaneous Test Methods	15-May-96	29	
	AEC Q101-005	A	Charged Device Model (CDM) Electrostatic Discharge (ESD) Test (Discrete Semiconductor)	29-Jan-19	7	
	AEC Q101-006	-	Short Circuit Reliability Characterization of Smart Power Devices for 12V Systems	14-Sep-06	19	

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Wide Band Gap		TBD -	Failure Mechanism Based Stress Test Qualification for Wide Band Gap Devices in Automotive Applications			Y
Optoelectronic Qualification	AEC Q102 Base Document A		Failure Mechanism Based Stress Test Qualification for Optoelectronic Semiconductors in Automotive Applications	6-Apr-20	5	
	AEC Q102-001 -		Optoelectronic Component DEW Test (DEW)	6-Apr-20	5	
	AEC Q102-002 -		Optoelectronic Component Board Flex Test (BF)	6-Apr-20	5	
	AEC Q102-003 -		Optoelectronic Multichip Modules (OE-MCM)	28-Aug-22	3	
Sensor Qualification	No Base Document					
	AEC Q103-001		MEMS Inertial Sensors	ON HOLD		N
	AEC Q103-002 A		Failure Mechanism Based Stress Test Qualification for MEMS Pressure Sensor Devices	17-Sep-23	2	N
	AEC Q103-003 -		Failure Mechanism Based Stress Test Qualification for MEMS Microphone Devices	14-Feb-19	7	N
MCM Qualification	AEC Q104 A		Failure Mechanism Based Stress Test Qualification for Multichip Modules (MCM) in Automotive Applications	28-Nov-25	0	Y
Passive Qualification	AEC Q200 Base Document E		Stress Test Qualification for Passive Components	20-Mar-23	3	Y
	AEC Q200-001 B		Flame Retardance Test	1-Jun-10	15	
	AEC Q200-002 B		Human Body Model Electrostatic Discharge Test	1-Jun-10	15	
	AEC Q200-003 B		Beam Load (Break Strength) Test	1-Jun-10	15	
	AEC Q200-004 A		Measurement Procedures for Resettable Fuses	1-Jun-10	15	
	AEC Q200-005 A		Board Flex Test (Passive Components / Ceramic Capacitors)	1-Jun-10	15	
	AEC Q200-006 A		Terminal Strength (SMD) / Shear Stress Test	1-Jun-10	15	Y
	AEC Q200-007 A		Voltage Surge Test	1-Jun-10	15	
Templates and Forms	AEC Q100 CDC Template A		Certificate of Design and Construction for ICs (Stand Alone Document)	30-Jun-25	0	Y
	AEC Q100 QTP Template H		Qualification Test Plan	11-Sep-14	11	
	AEC Q102 CDC Template A		Certificate of Design and Construction for Optoelectronics	6-Apr-20	5	
	AEC Q102 QTP Template A		Qualification Test Plan for Optoelectronics	29-Jul-20	5	
	AEC Q102 Data Template A		Qualification Data Presentation for Optoelectronics	29-Jul-20	5	
	AEC Q102-003 Combined QTP Data Superset Template -		Combined Qualification Test Plan, Data Presentation and Superset of Tests for Optoelectronic MCMs	28-Aug-22	3	
	AEC Q102-003 Requal Matrix Template -		Requal Matrix Template for Optoelectronic MCMs	16-Dec-22	3	
	AEC Q103-002 CDC Template A		CDC Template for MEMs Pressure Sensors	17-Sep-23	2	
	AEC Q104 CDC Template -		CDC Template for MCMs	14-Dec-17	8	
	AEC Q104 QTP Template -		QTP Template for MCMs	14-Dec-17	8	