

CTS3001 Qualification Report

Part Name	CTS3001	Customer Name(s):	Various		Revision:	1	
Assembly Site	FLK	R&QA Engineer:	Ming Chen		Revision Date:	May 15, 2026	
Test Site	CAL	Lots:	Lot A: DVT				

GROUP A - ACCELERATED ENVIRONMENTAL STRESS TESTS

Stress Test	Standard	Conditions	Part Name	Min. SS	# of Lots	SS	QTY	Results	Comments
Cold storage	IEC-60068-2-1:2007 (Test Ab)	-40°C, 1,000hrs	CTS3001	8	1	8	8	Lot A: 0/8	
High temperature storage	IEC-60068-2-2:2007 (Test Bb)	85°C, 1,000hrs	CTS3001	8	1	8	8	Lot A: 0/8	
Thermal cycling	IEC-60068-2-14:2009 (Test Na)	-10 to 60°C, 90min cycles, 1,000 cycles	CTS3001	8	1	8	8	Lot A: 0/8	
Humidity cycling/ thermal shock (humidity shock)	IEC-60068-2-38:2009 (Test Z/AD)	10 cycles of 24h each with following sub-cycles: A: 8h, 25°C-65°C, 93%RH B: 3h, -10°C, 5h, 25°C C: 8h, 25°C 5 days of AAB then 5 days of AAC	CTS3001	8	1	8	8	Lot A: 0/8	
Damp heat (steady state)	IEC-60068-2-78:2012 (Test Cab)	65°C, 85%RH, 1,000hrs	CTS3001	8	1	8	8	Lot A: 0/8	

GROUP B - ACCELERATED LIFETIME SIMULATION TESTS

Stress Test	Standard	Conditions	Part Name	Min. SS	# of Lots	SS	QTY	Results	Comments
Cold operation	IEC-60068-2-1:2007 (Test Ae)	-40°C, 1,000hrs, units powered on	CTS3001	8	1	8	8	Lot A: 0/8	
High temperature operation	IEC-60068-2-2:2007 (Test Be)	65°C, 1,000hrs, units powered on	CTS3001	8	1	8	8	Lot A: 0/8	

GROUP C - PACKAGE ASSEMBLY & CAVITY INTEGRITY TESTS

Stress Test	Standard	Conditions	Part Name	Min. SS	# of Lots	SS	QTY	Results	Comments
Dimension tolerances	JESD22-B100B	Physical Dimensions - As per CTS3001 Assembly Drawing	CTS3001	50	1	50	50	lot A: CpK >1.67	
Drop test [in EVK housing onto concrete surface]	IEC 60068-2-31:2008 (Test Ec)	200mm (6 surfaces, 4 corners)	CTS3001	8	1	8	8	Lot A: 0/8	
Vibration test [Shipping package]	IEC-60068-2-6:2007 (Test Fc)	10 to 500 Hz, 50ms ² 10 sweeping cycles/2h, 3 axes	CTS3001	8	1	8	8	Lot A: 0/8	
Shock test	IEC 60068-2-27:2008 (Test Ea)	(20G, 2ms), 3 axes, 3 shocks per axes	CTS3001	8	1	8	8	Lot A: 0/8	

GROUP D - ELECTRICAL VERIFICATION TESTS

Stress Test	Standard	Conditions	Part Name	Min. SS	# of Lots	SS	QTY	Results	Comments
Electro-static discharge test	IEC-61000-4-2:2008	10x ESD discharges of ±1/2/4/8kV (air, direct, plates, connector)	CTS3001	8	1	8	8	Lot A: 0/8	