



Accelerated Moisture Resistance (Autoclave)

JESD22-A102
96 Hours Temp = 121°C, RH = 100%

The purpose of the "Unbiased Autoclave Test" is performed to evaluate the moisture resistance integrity of non-hermetic packaged solid state devices using moisture condensing or moisture saturated steam environments. It is a highly accelerated test that employs conditions of pressure, humidity and temperature under condensing conditions to accelerate moisture penetration through the external protective material (encapsulant or seal) or along the interface between the external protective material and the metallic conductors passing through it. This test is used to identify failure mechanisms internal to the package and is destructive.

Test Results

Part Type	Description	Sample Size	Date	Results
MT3-0113LCQG	MMIC T3 Mixer RF 1.5 - 13	24	May 2018	Pass
MM1-1140H	MMIC Mixer RF 11 - 40 GHz +15	5	May 2018	Pass
M1-0420LA	Mixer RF 4-20 GHz +7 dBm A pkg	3	May 2018	Pass
M1-0420HA	Mixer RF 4-20 GHz +16 dBm A pkg	3	May 2018	Pass
T3-08LCQG	T3 MIXER RF 10-8000 MHz +15 dB	24	Mar 2017	Pass
ADM-0126-5928SM	MMIC Amplifier	40	Aug 2016	Pass

By similarity any product using the same assembly techniques and materials can use these results for qualification.

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