



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 |
|-----------------|---------------------------------|-------------|----------|---------|
| AMM-6702SM | MMIC Broadband LO Buffer AMP | 5 | 8/6/19 | Pass |
| MM1-1850HSM-2 | MMIC Mixer RF 18 - 50 GHz | 3 | 5/31/19 | Pass |
| BT-0014SMG-2 | SM Bias Tee 14 GHz | 21 | 4/5/19 | Pass |
| T3-20LS | T3 Mixer RF 10 MHz-20 GHz | 1 | 4/5/19 | Pass |
| 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 |
| M1-0420LP | Mixer RF 4-20 GHz +7 dBm A pkg | 3 | May 2018 | Pass |
| M1-0420HP | 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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