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Mechanical Shock Summary

Cage Code	SIZE	Version			
0UC32	A	#	Description	Date	Approved
Document No.		1.2	Add to Docuware	09/14/22	JCG
051-07217		1.1	Added more part numbers	9/14/22	MZ
Test Summary		1.0	Changed format and to Docuware versioning	10/22/20	MG

1. Purpose and Scope

This test is conducted for the purpose of determining the suitability of component parts and subassemblies of electrical and electronic components when subjected to shocks such as those which may be expected as a result of rough handling, transportation and military operations. This test differs from other shock tests in this standard in that the design of the shock machine is not specified, but the half-sine and sawtooth shock pulse waveforms are specified with tolerances. The frequency response of the measuring system is also specified with tolerances.

2. Reference

MIL-STD-883, Method 2002 Test Method Standard Microcircuits

3. Test Results

Part Type	Description	Sample Size	Date	Results
BAL-0006SMG	High Power Balun 500 kHz - 6 GHz	9	4/22/21	Pass
BALH-0006SMG	High Power Balun 500 kHz - 6 GHz	7	4/22/21	Pass
BAL-0020SLG	Broadband Balun 10 MHz - 20 GH	8	10/20/20	Pass
EVAL-AMM6702SM	MMIC Broadband Amplifier	11	3/9/20	Pass
DPXX0246-1	Custom Diplexer	6	7/19/19	Pass
DPXX0246-2	Custom Diplexer	6	7/29/19	Pass
MT3H-0113HS	MMIC T3 Mixer RF 1.5 – 13GHz	3	5/10/19	Pass
ML1-0220IS	Microlithic Mixer RF 2-20 GHz	3	5/10/19	Pass
T3A Mixer	T3 Mixer with integrated amp 3 shocks X direction	1	6/6/16	Pass
T3A Mixer	T3 Mixer with integrated amp 3 shocks Y direction	1	6/6/16	Pass
T3A Mixer	T3 Mixer with integrated amp 3 shocks Z direction	1	6/6/16	Pass

The T3A Mixer is one of the most complicated devices built at Marki Microwave. By using this device as our qualification vehicle, it effectively qualifies all the materials and processes used in all of our various products.

This T3 Mixer with integrated amp technology utilizes wire bonding, epoxy die attach, PCB soldering and hermetic seal. The T3 Mixer with integrated amp contains 63/37 solder, Ferrite Cores, Bi-filar wires,100 mil Conical coils, chip capacitors, Integrated chip Amplifier, 0402 capacitors and resistors, Kovar standoffs and T3 Mixer diodes.

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

CUSTOMER: Marki Microwave
Project File Name: Shock1.prj
Profile Name: 30G, 11mSec