



Vibration Summary

MIL-STD 202 Method 214

Test Condition I with Condition A = 5.35 Grams
15 mins / Z-Axis
@ 50/100/1000/2000 Hz

PURPOSE. This test is conducted for the purpose of determining the ability of component parts to withstand the dynamic stress exerted by random vibration applied between upper and lower frequency limits to simulate the vibration experienced in various service field environments. Random vibration is characteristic of modern field environments produced by missiles, high-thrust jets and rocket engines. In these types of environments, the random vibration provides a more realistic test.

Test Results

Part Type	Description	Sample Size	Date	Results
T3A Mixer	T3 Mixer with integrated amp	29	09/17/16	Pass
T3A Mixer	T3 Mixer with integrated amp	63	01/11/17	Pass
T3A Mixer	T3 Mixer with integrated amp	73	05/26/17	Pass
T3A Mixer	T3 Mixer with integrated amp	81	10/25/17	Pass
T3A Mixer	T3 Mixer with integrated amp	21	05/11/18	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 of the materials and processes used in all of our various products.

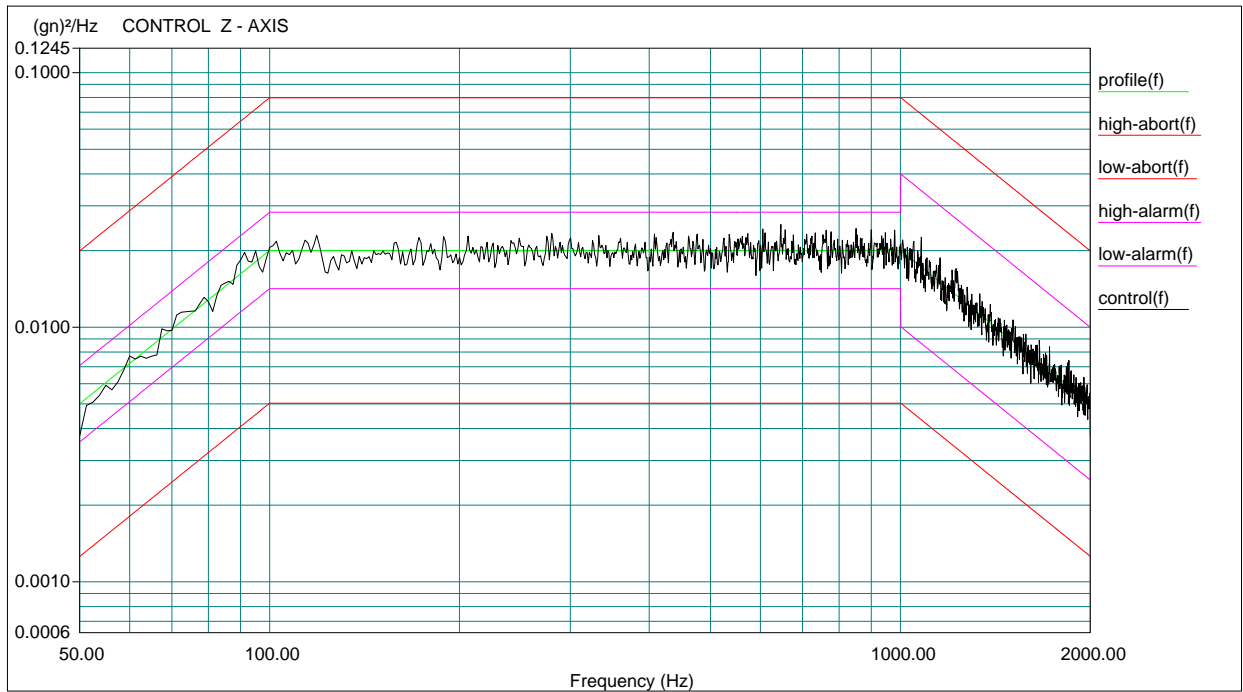
This T3 Mixer with integrated amp technology utilizes: wire bonding, epoxy die attach, PCB soldering and hermetic seal. The T3 Mixer with integrated amp contains 63/37 solder, Ferrite Cores, Bi-filar wires, 100 mil Conical coils, chip capacitors, Integrated chip Amplifier, 0402 capacitors and resistors,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

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

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Level: 100 %

Control RMS: 5.374419 gn Full Level Elapsed Time: 00:10:00 Lines: 1600

Frame Time: 0.800000 Seconds

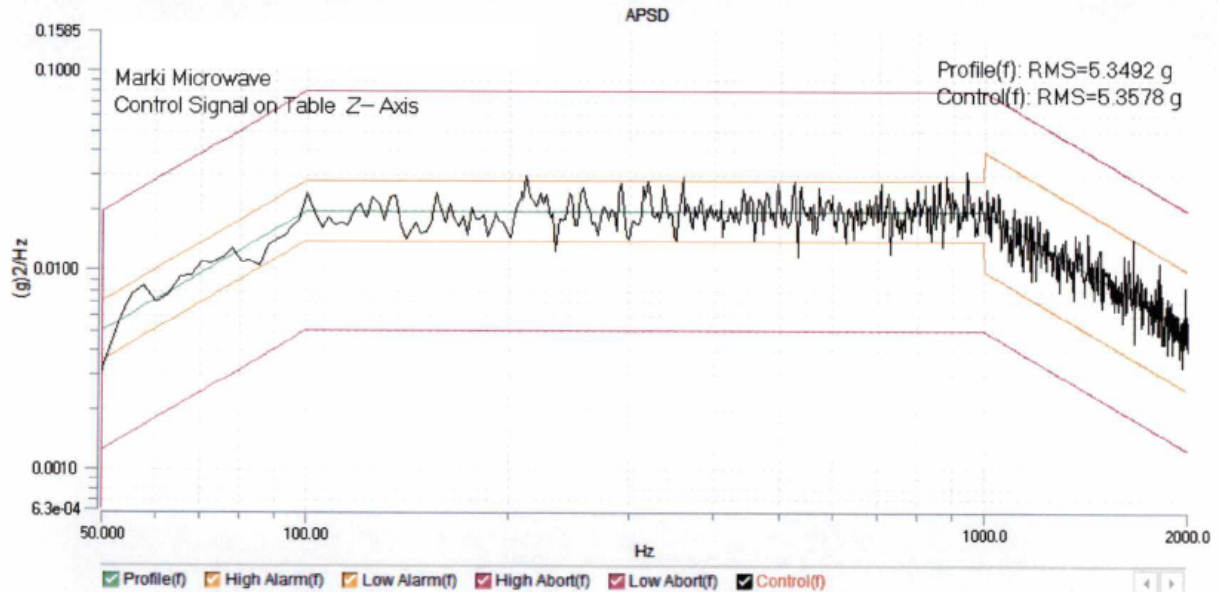
Demand RMS: 5.347739 gn Remaining Time: 00:00:00 DOF: 120

dF: 1.250000 Hz

Data saved at 09:19:33 AM, Wednesday, January 11, 2017

Report created at 09:19:36 AM, Wednesday, January 11, 2017

Test Name: 50-2000Hz 5.3Grms Object name: Object Type:
Test Type: Random Test Project Name: MIL-SD-883H.ucn



Current Level: 100.00 % Demand RMS: 5.349 g Control RMS: 5.358 g

Frame Time: 0.4000 (s) Lines: 800 dF: 2.5 Hz

DOF: 120 Current Level Time: 00:15:00 Remaining Time: 00:00:00

Data was saved as a file at time: 2018-5-11 AM 10:22:16