



CONSTANT ACCELERATION

MIL-STD 883 Method 2001

PURPOSE. This test is used to determine the effects of constant acceleration on microelectronic devices. It is an accelerated test designed to indicate types of structural and mechanical weaknesses not necessarily detected in shock and vibration tests. It may be used as a high stress test to determine the mechanical limits of the package, internal metallization and lead system, die or substrate attachment, and other elements of the microelectronic device. By establishing proper stress levels, it may also be employed as an in-line 100 percent screen to detect and eliminate devices with lower than nominal mechanical strengths in any of the structural elements.

Test Results

Part Type	Description	Test Condition	Sample Size	Date	Results
MM2K-0530LCH-2	MMIC Mixer RF 5-30 GHz	3000 g's Y1	12	8/15/18	Pass
M1-0420LP	Mixer RF 4-20 GHz +7 dBm A pkg	3000 g's Y1	24	12/21/17	Pass
M1-0420HP	Mixer RF 4-20 GHz +16 dBm A pkg	3000 g's Y1	24	12/21/17	Pass
MM1K-1140HCH-2	RF MMIC RF Mixer 11 - 40 GHz	3000 g's Y1	12	12/6/17	Pass
T3A Mixer	T3 Mixer with integrated amp	A = 5000 g's Y1	31	03/26/16	Pass
T3A Mixer	T3 Mixer with integrated amp	A = 5000 g's Y1	27	02/08/16	Pass
T3A Mixer	T3 Mixer with integrated amp	A = 5000 g's Y1	42	01/29/16	Pass
T3A Mixer	T3 Mixer with integrated amp	A = 5000 g's Y1	38	01/19/16	Pass
T3A Mixer	T3 Mixer with integrated amp	A = 5000 g's Y1	68	12/21/15	Pass
ML1 Mixer	Microolithic Mixer	D = 20,000 g's Y1	4	02/01/13	Pass

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