

MIL-HDBK-340A, Vol. I

Table III. Maximum Allowable Test Tolerances.

Test Parameters	Test Tolerance	
Temperature		
-54°C to +100°C	± 3°C	
Relative Humidity	± 5%	
Acceleration	+10/-0%	
Static Load and Pressure	+ 5/-0%	
Atmospheric Pressure		
Above 133 pascals (>1 Torr)	±10%	
133 to 0.133 pascals (1 Torr to 0.001 Torr)	±25%	
Below 0.133 pascal (<0.001 Torr)	±80%	
Test Time Duration	+10/-0%	
Vibration Frequency	± 2%	
Sinusoidal Vibration Amplitude	±10%	
Random Vibration Power Spectral Density		
<u>Frequency Range</u>	<u>Maximum Control Bandwidth</u>	
20 to 100 Hz	10 Hz	± 1.5 dB
100 to 1000 Hz	10% of midband frequency	± 1.5 dB
1000 to 2000 Hz	100 Hz	± 3.0 dB
Overall		± 1.0 dB
Note: Control bandwidths may be combined for tolerance evaluation purposes. The statistical degrees of freedom will be at least 100.		
Sound Pressure Levels		
<u>1/3-Octave Midband Frequencies</u>		
31.5 to 40 Hz		± 5.0 dB
50 to 2000 Hz		± 3.0 dB
2500 to 10000 Hz		± 5.0 dB
Overall		± 1.5 dB
Note: The statistical degrees of freedom will be at least 100.		
Shock Response Spectrum (Peak Absolute Acceleration, Q = 10)		
<u>Natural Frequencies Spaced at 1/6-Octave Intervals</u>		

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At or below 3000 Hz

± 6.0 dB

Above 3000 Hz

+ 9.0/-6.0 dB

Note: At least 50% of the spectrum values will be greater than the nominal test specification.