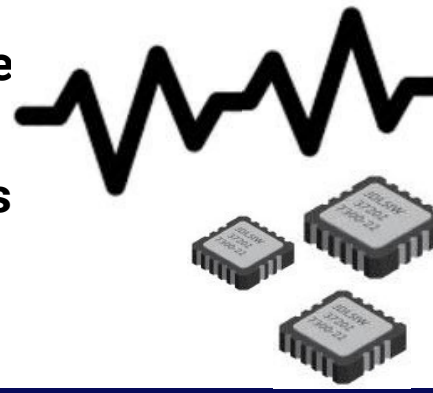


# DEFINING VIBRATION TEST

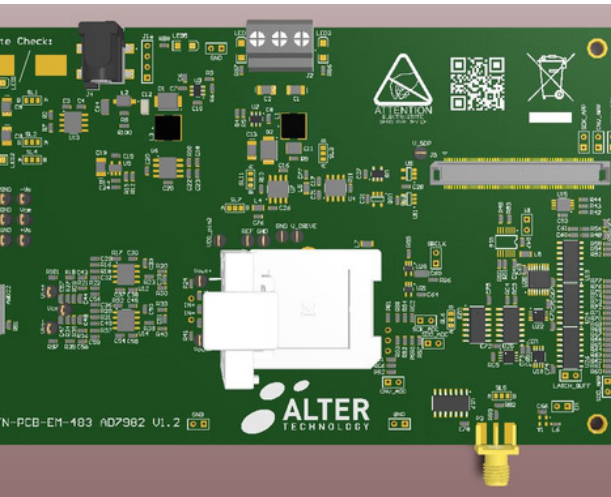
Companies are using Vibration Test to prove a component to detect any mechanical weakness of the device and also to verify its robustness in addition to typify its dynamic behaviour.



## CHOOSING THE RIGHT VIBRATION TEST

The main objective of vibration testing is to know the exact levels of stress that are expected to either endure or not to tolerate the component you are testing.

okay



### PCB Verification Program

STANDARD ECSS-Q-ST-70-38C &

### Electronics components Tests



#### SINE

- Mechanical stress to the parts to demonstrate acceptability for their final use.
- Applying a constant level of acceleration in a frequency range.
- Conditions according to specific Standards or customized by requirements.
- Example: simulate sustained Sine and transient event that occurs during launch in a spacecraft



#### RANDOM

- More realistic vibration. Goal is reach the failure point of a part.
- Exciting all the frequencies in a defined spectrum at any given time.
- Example: the firing of a rocket or an airplane wing in turbulent air flow.

#### SHOCK

- The purpose of shock testing is to determine the sensitivity of a product to impact (identify the weakest elements of a product)
- Applying high levels of acceleration, for a very short period of time
- Simulation of impact, drop, explosion and conditions which may occur during transport.



Conditions according to specific Standards or customized by requirements.

CONTACT US for a budget

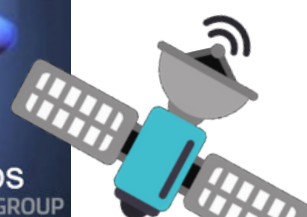


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