

Crystal Oscillator Mounting for Shock and Vibration

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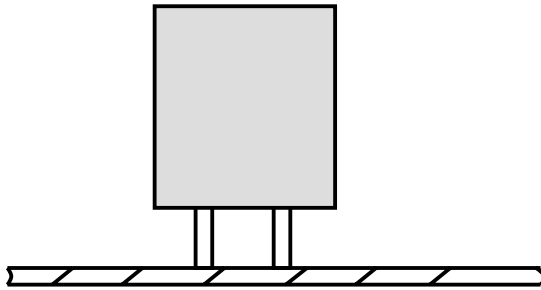


Figure 1. Crystal Oscillator Mounted on Circuit Board, Typical Mounting Method

The oscillator's structural response is similar to a cantilever beam. Resonant excitation may occur during shock and vibration. High stress levels may develop in the crystal and in the leads as a result.

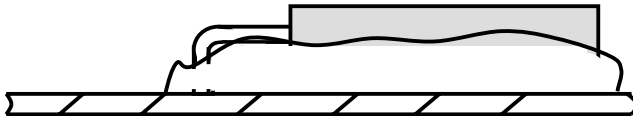


Figure 2. Crystal Oscillator Mounted on Circuit Board, Improved Mounting Method

The oscillator is bent over so that it is parallel to the board. Then it is staked down with epoxy compound. Furthermore, a Mil-Spec oscillator should be used rather than a commercial unit.