



Vibration Test Results

September 9, 2014
Yazaki Corporation



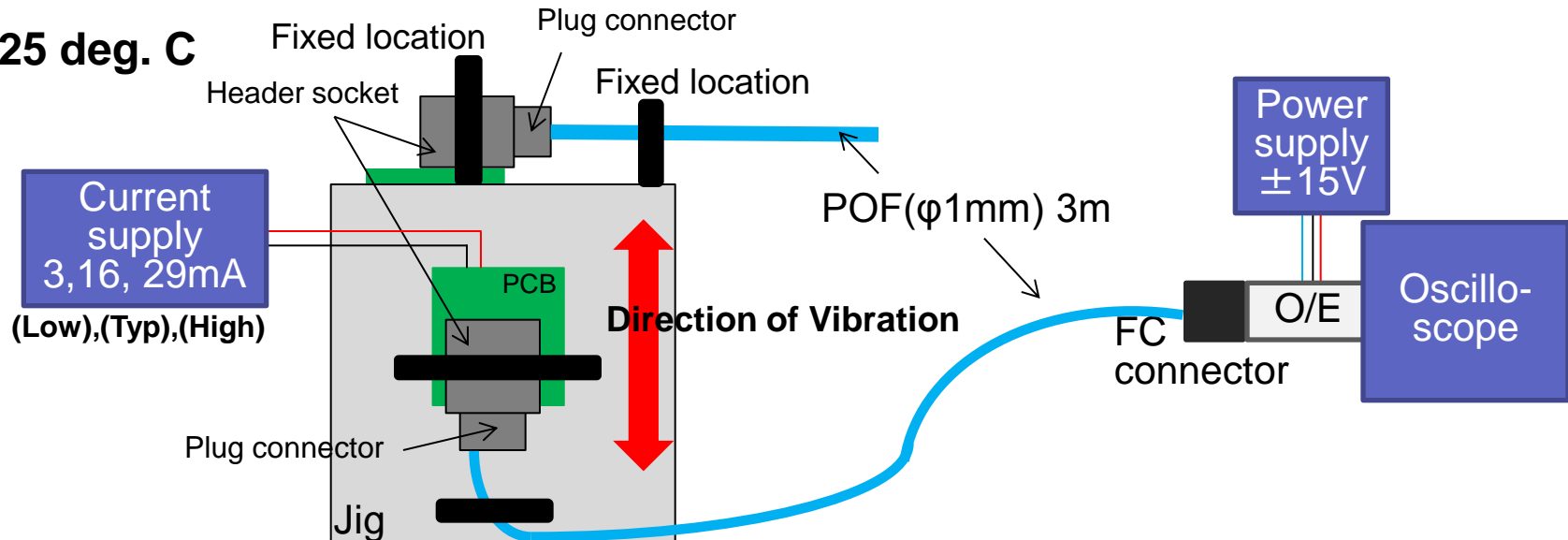
Vibration test

[Purpose]

Check the effects of vibrations to the power budget in multilevel communications

[Set-up]

T=25 deg. C



Schematic diagrams for “vibration test”

[Procedure]

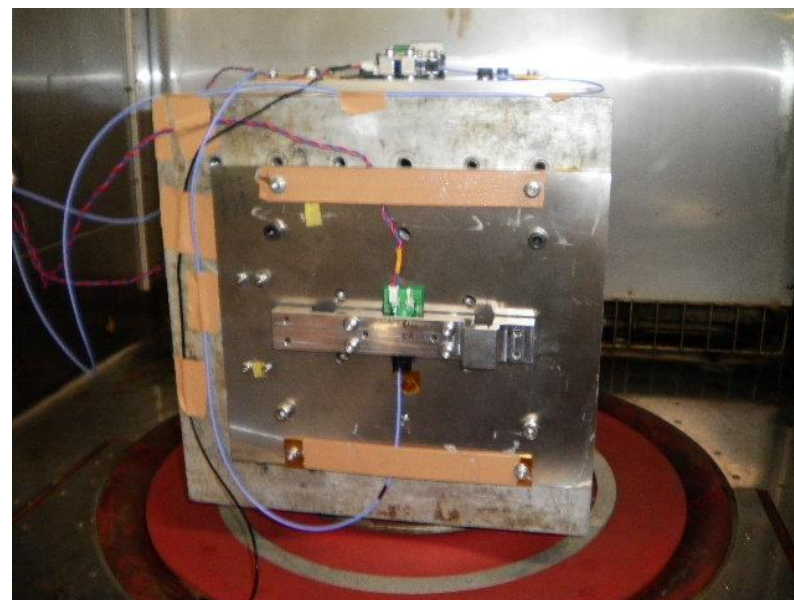
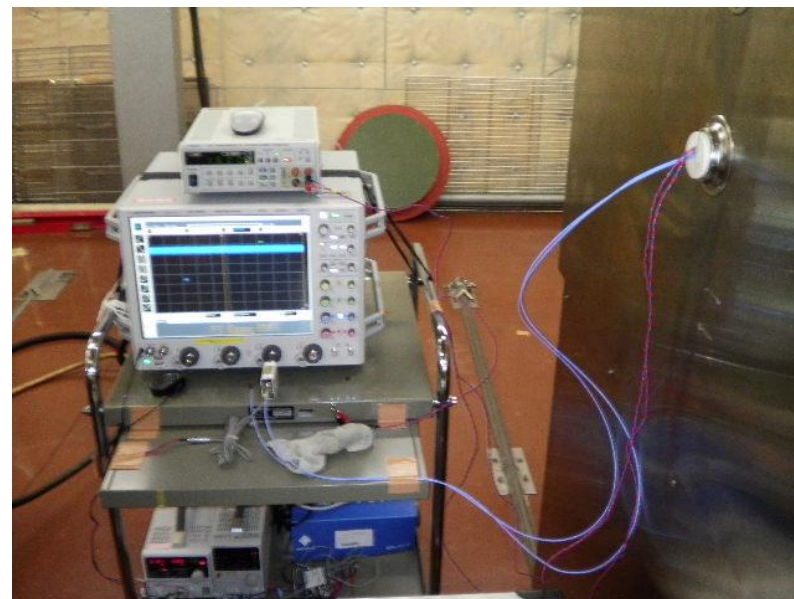
Operate header socket with constant Optical power and detecting by O/E converter to be connected oscilloscope.

Apply vibration to the jig with frequency of 0, 10, 20, 50, 100 and 200Hz, one by one.

Record waveform where can be seen amplitude changes.



Vibration test

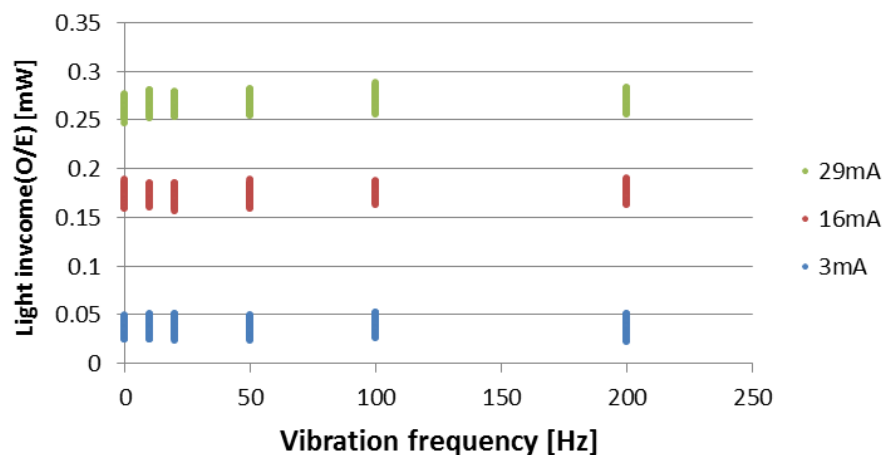




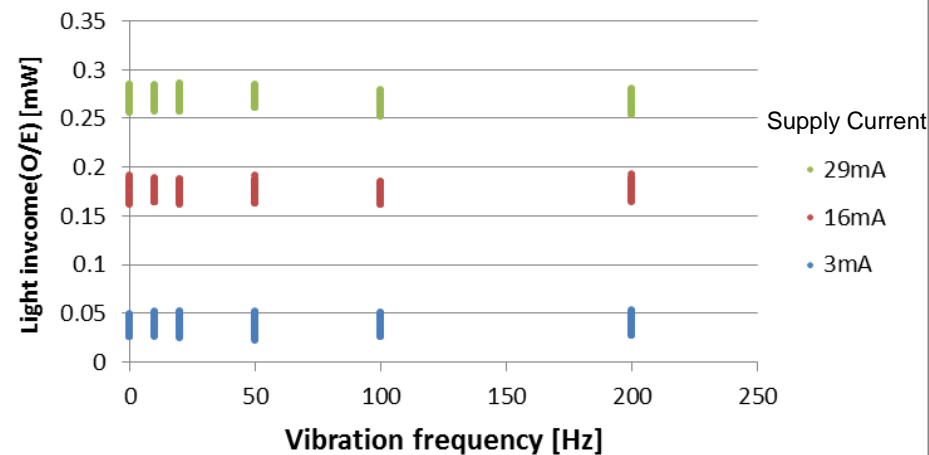
Results

T=25 deg. C

Vibration direction - Misalignment



Vibration direction - z-gap



Changes in vibration frequency do not cause the amplitude to vary.



■ Summary

- **Vibration did not affect the optical power**
- **Now testing under various temperatures (-40 deg. C to 95 deg. C)**
- **Need to check inline connectors**