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# Device Parameters Summary

**Device ID :** S45737

**Actuator Type:** 13Z2.1

**Actuator Mode :** Gimbal-less Dual-Axis Quasistatic

**Mirror Type and Size :** Bonded mirror of 5.0mm diameter

**Mirror Coating :** Gold

**Maximum Mech. Angle - X Axis [degrees] :** 2.8146

**Maximum Mech. Angle - Y Axis [degrees] :** 2.8038

**Maximum Vdifference - X Axis [V] :** 160

**Maximum Vdifference - Y Axis [V] :** 159

**Driver Bias Voltage (Vbias) [V] :** 80

**Maximum Mech. Angle - Coupled Axes [degrees] :** 3.6572

**Resonant Frequency - X Axis [Hz] :** 459

**Resonant Frequency - Y Axis [Hz] :** 457

**Quality Factor - X Axis :** 41

**Quality Factor - Y Axis :** 42

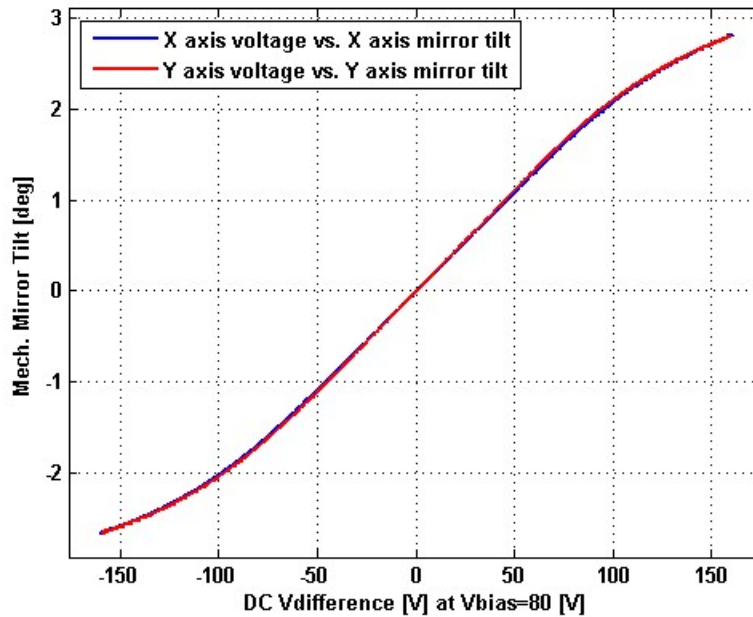
**Recommended LPF Cutoff Frequency (6th Order Bessel) [Hz] :** 220

**Date and Time Report was Created:** 20-Jun-2019 at 18:11:4

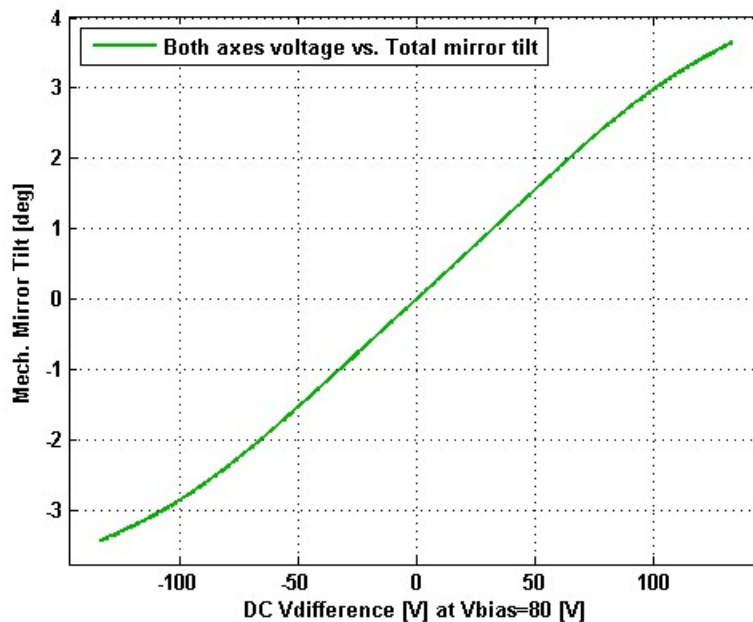
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# Static Response

## Voltage vs. Mech. Angle - Individual Axes



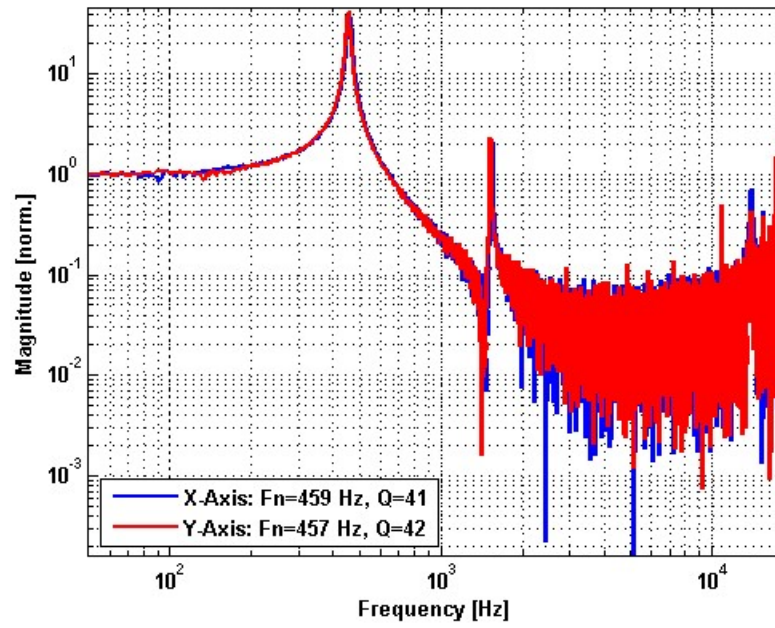
## Voltage vs. Mech. Angle - Coupled Axes



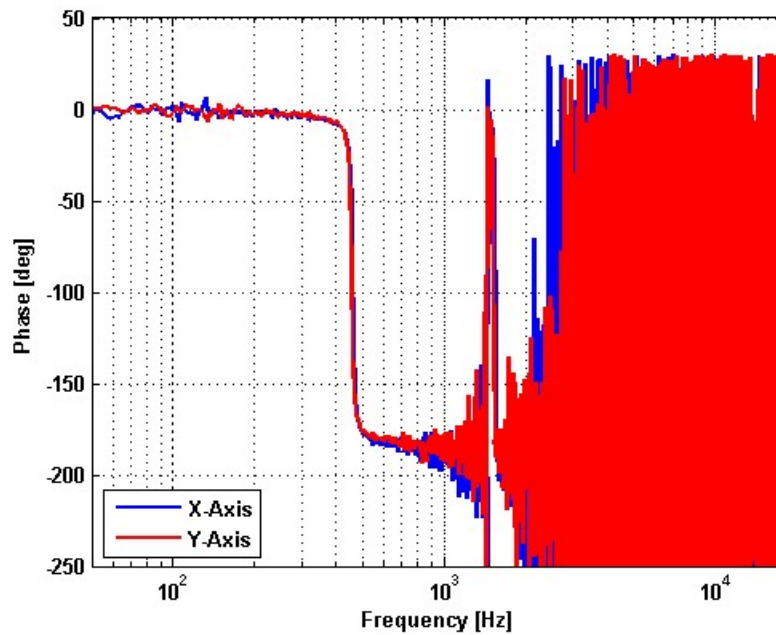
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# Frequency Response

## Small Signal Frequency Response - Magnitude



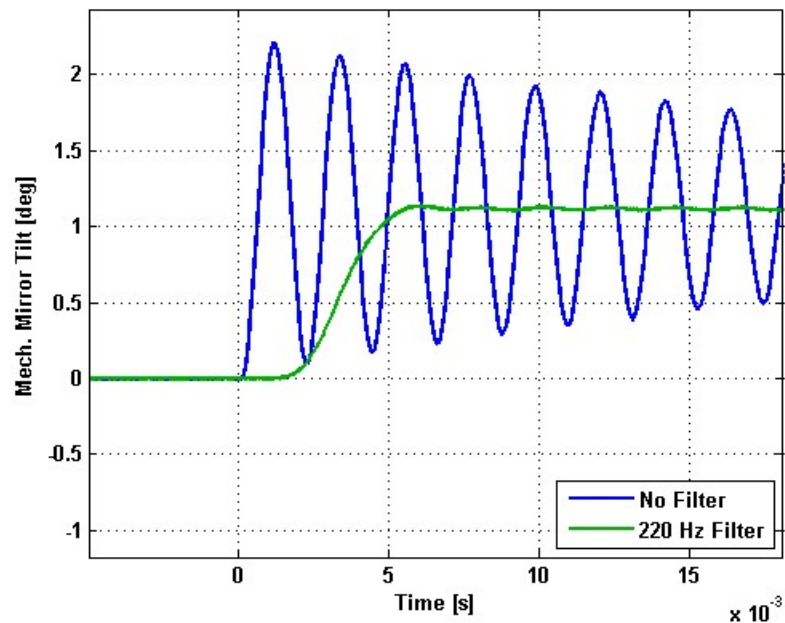
## Small Signal Frequency Response - Phase



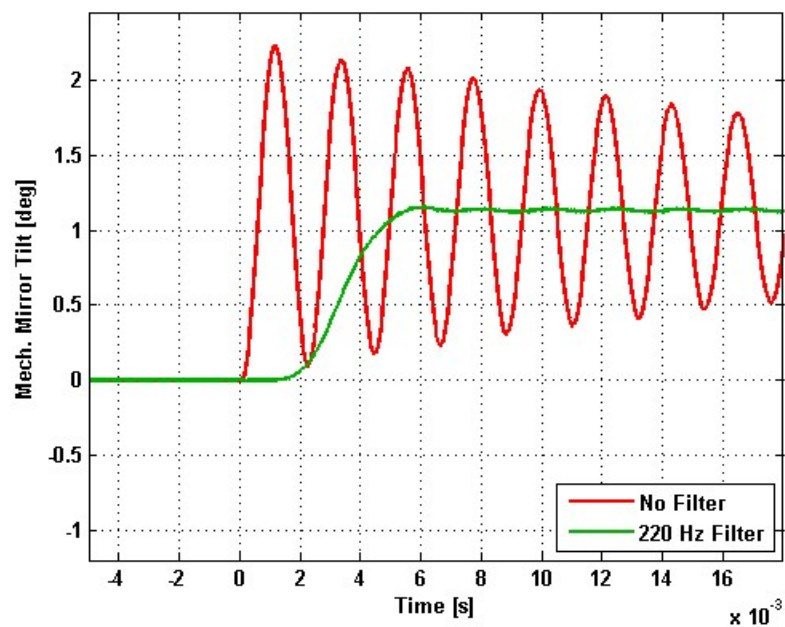
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# Step Response

## X-Axis Step Response



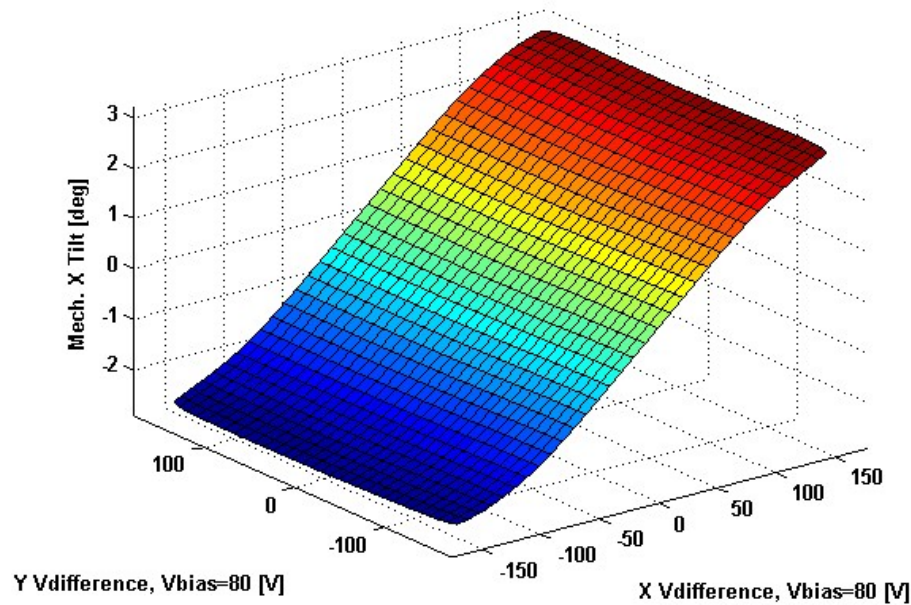
## Y-Axis Step Response



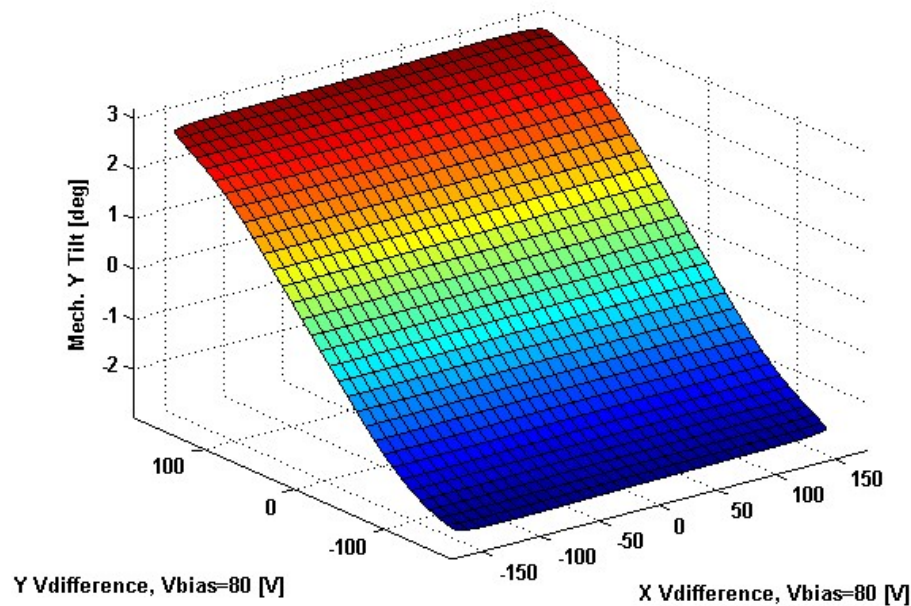
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## 2D Lookup Tables

### Voltage vs. X Mech. Angle - Lookup Table



### Voltage vs. Y Mech. Angle - Lookup Table



## Y vs. X Tilt - Addressable Mech. Angles

