

---

# Device Parameters Summary

**Device ID :** S6981

**Actuator Type:** A5M24.1

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

**Mirror Type and Size :** Integrated mirror of 2.4mm diameter

**Mirror Coating :** Aluminum

**Maximum Mech. Angle - X Axis [degrees] :** 5.1624

**Maximum Mech. Angle - Y Axis [degrees] :** 5.1912

**Maximum Vdifference - X Axis [V] :** 155

**Maximum Vdifference - Y Axis [V] :** 155

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

**Maximum Mech. Angle - Coupled Axes [degrees] :** 6.3981

**Resonant Frequency - X Axis [Hz] :** 940

**Resonant Frequency - Y Axis [Hz] :** 933

**Quality Factor - X Axis :** 42

**Quality Factor - Y Axis :** 42

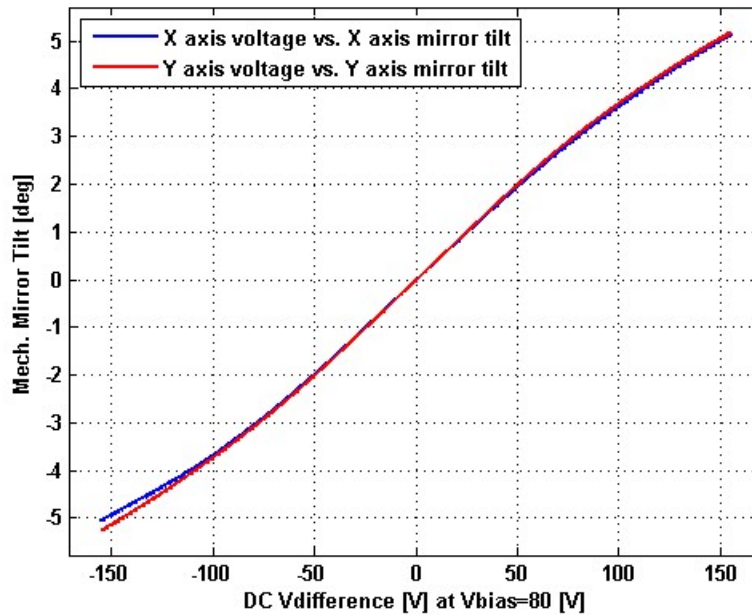
**Recommended LPF Cutoff Frequency (6th Order Bessel) [Hz] :** 300

**Date and Time Report was Created:** 16-Jun-2017 at 14:13:25

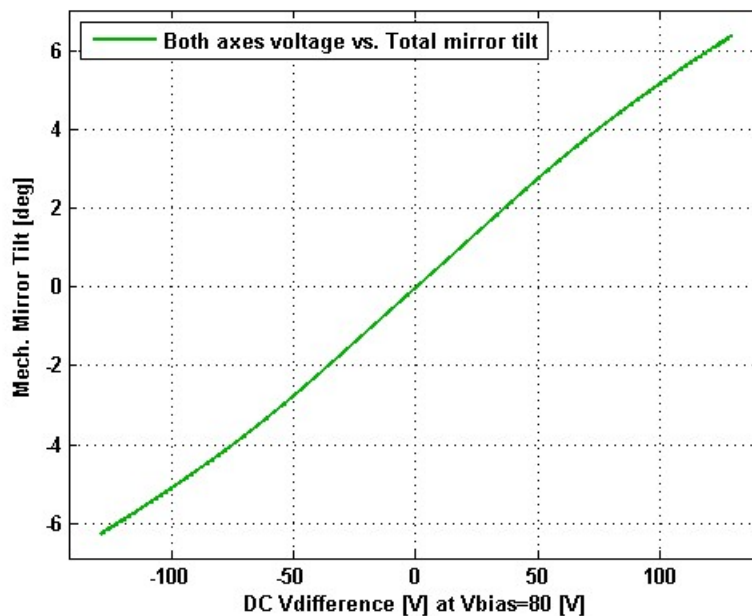
---

# Static Response

## Voltage vs. Mech. Angle - Individual Axes



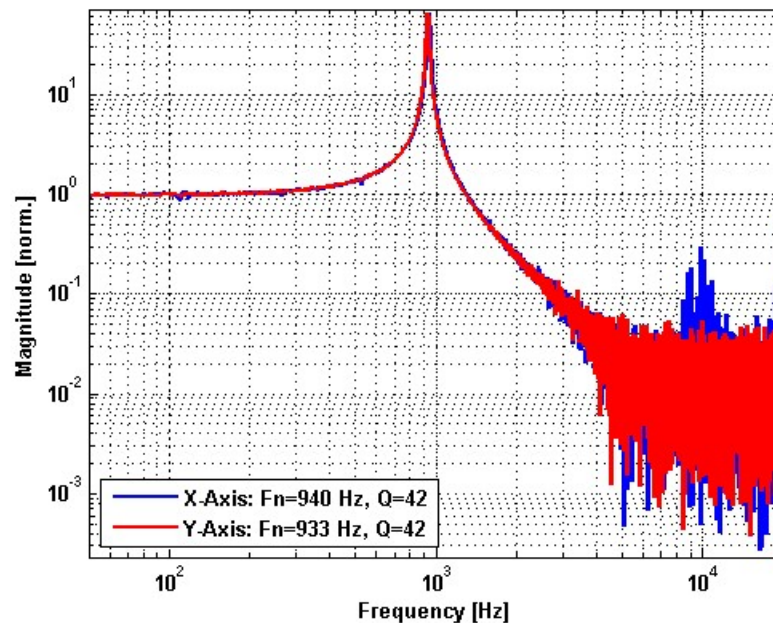
## Voltage vs. Mech. Angle - Coupled Axes



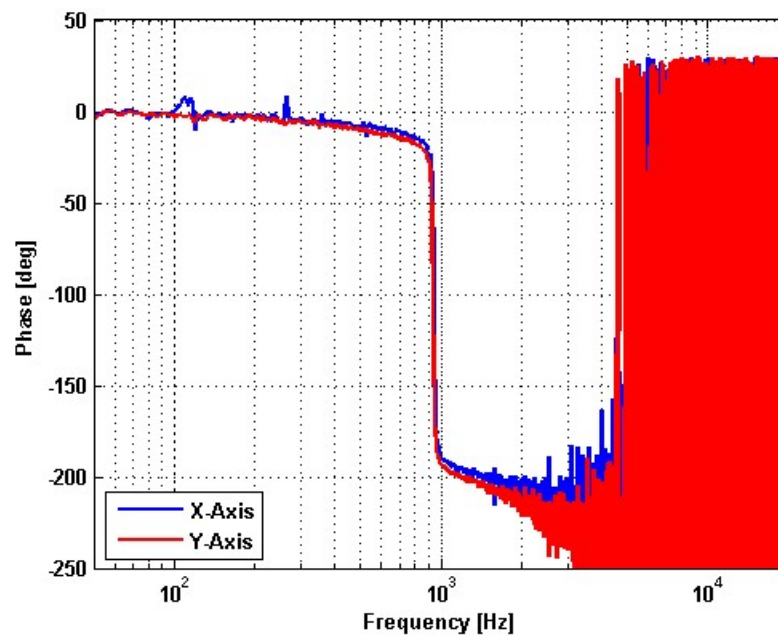
---

# Frequency Response

## Small Signal Frequency Response - Magnitude



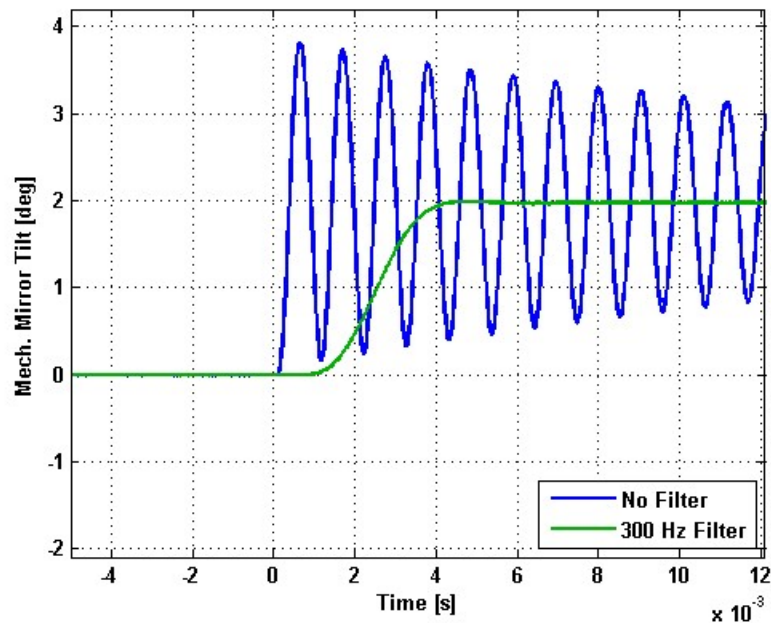
## Small Signal Frequency Response - Phase



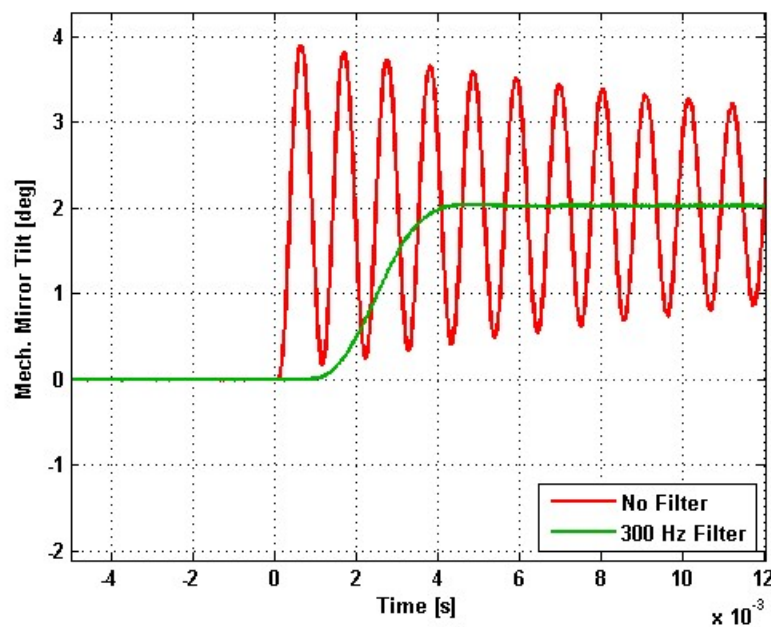
---

# Step Response

## X-Axis Step Response



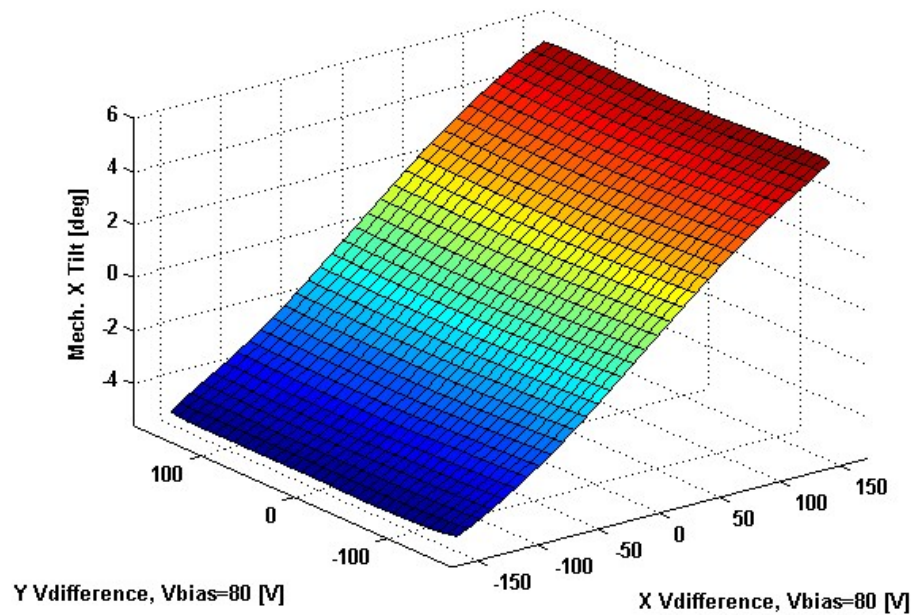
## Y-Axis Step Response



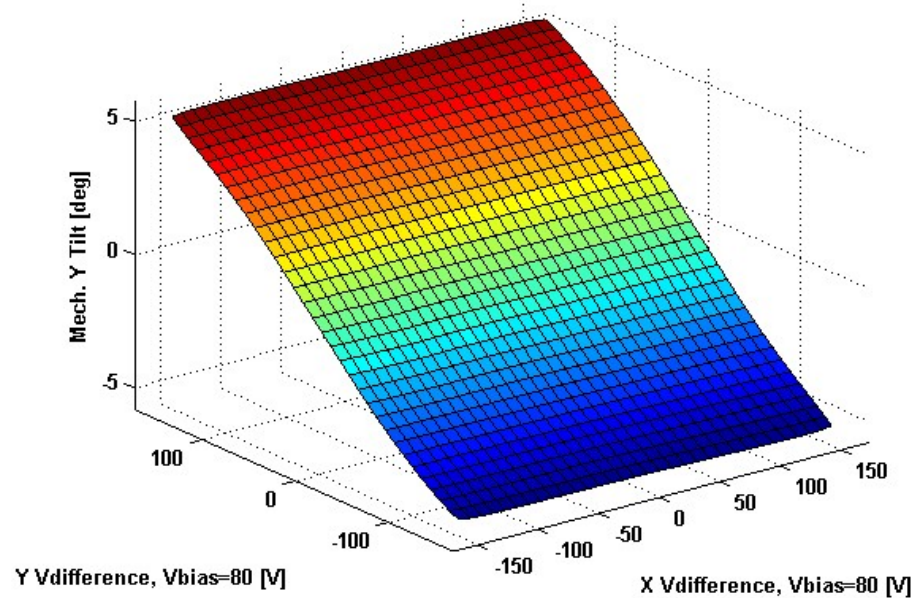
---

## 2D Lookup Tables

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



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



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

