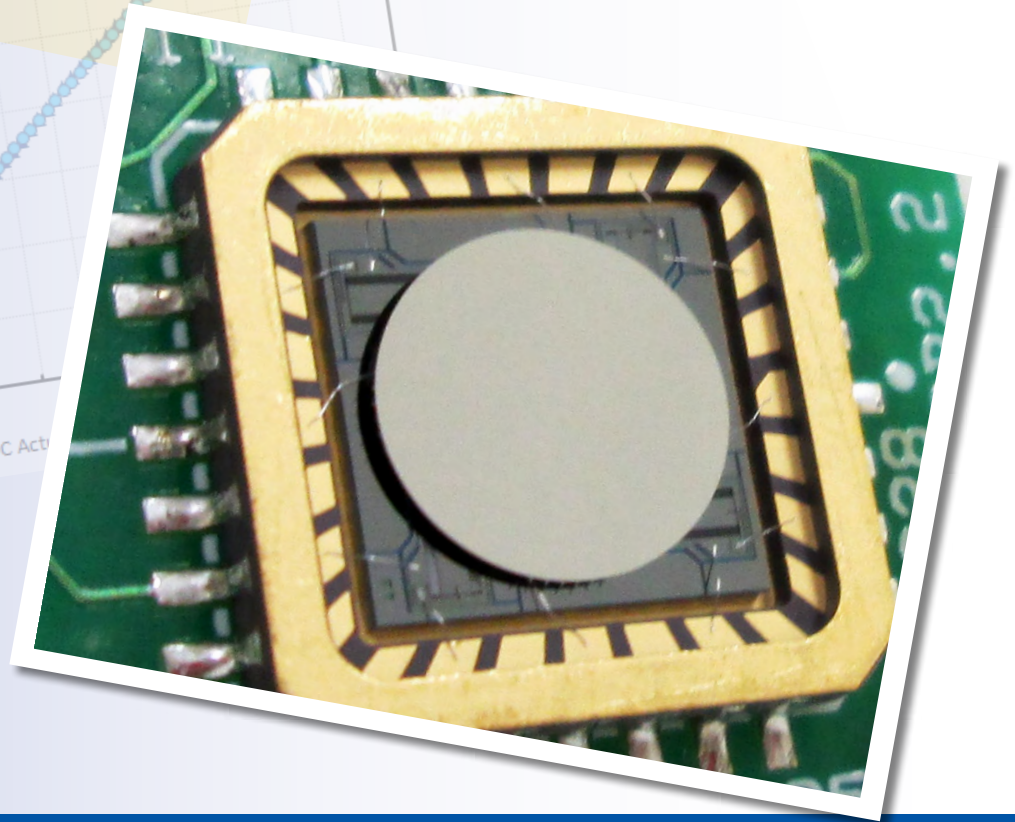
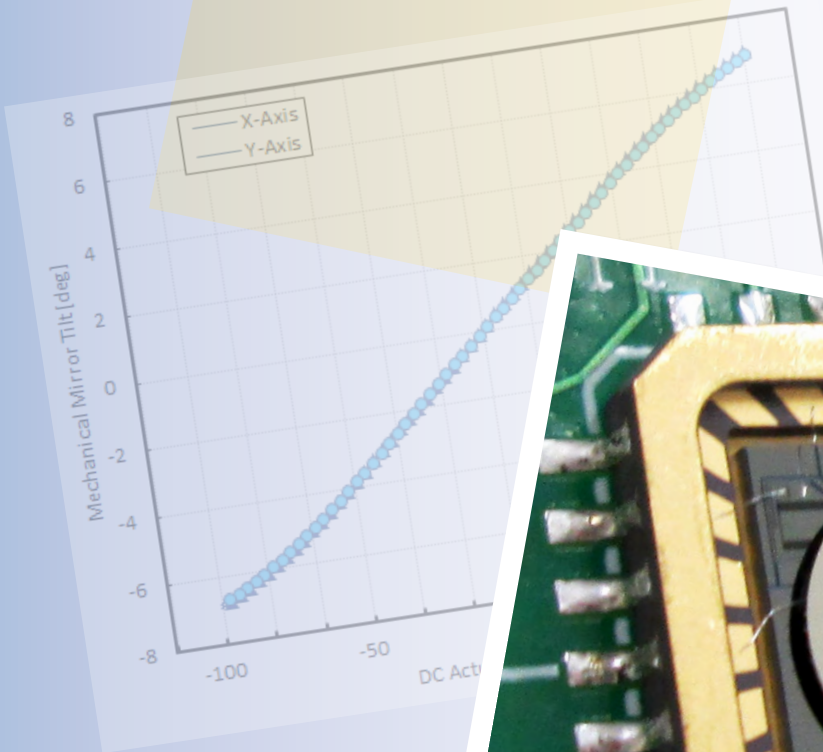




Gimbal-Less Single-Axis Scanning MEMS Micromirrors

Device Datasheet
S40981



Device Parameters Summary

Device ID : S40981

Actuator Type: A8L2.2S

Actuator Mode : Gimbal-less Dual-Axis Quasistatic

Mirror Type and Size : Bonded mirror of 4.2mm diameter

Mirror Coating : Aluminum

Maximum Mech. Angle - X Axis [degrees] : 5.1984

Maximum Vdifference - X Axis [V] : 165

Driver Bias Voltage (Vbias) [V] : 90

Maximum Mech. Angle - Coupled Axes [degrees] : 6.4995 **Resonant**

Frequency - X Axis [Hz] : 427

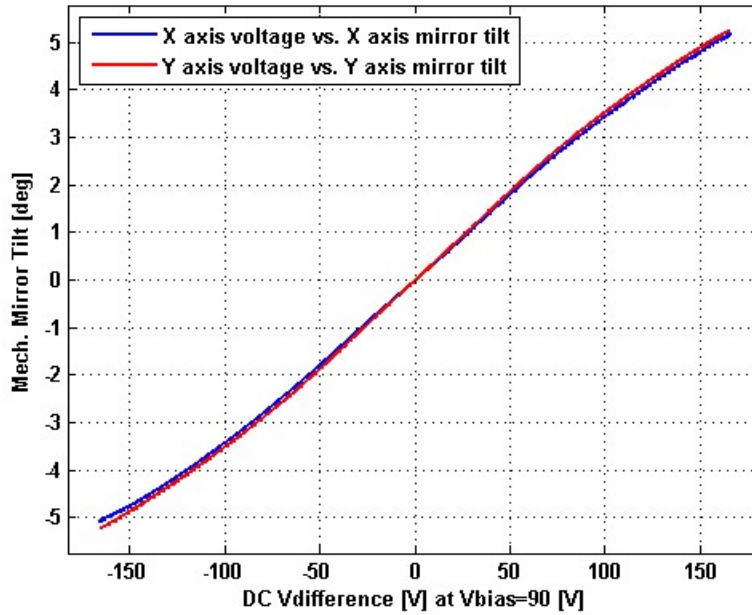
Quality Factor - X Axis : 21

Recommended LPF Cutoff Frequency (6th Order Bessel) [Hz] : 160

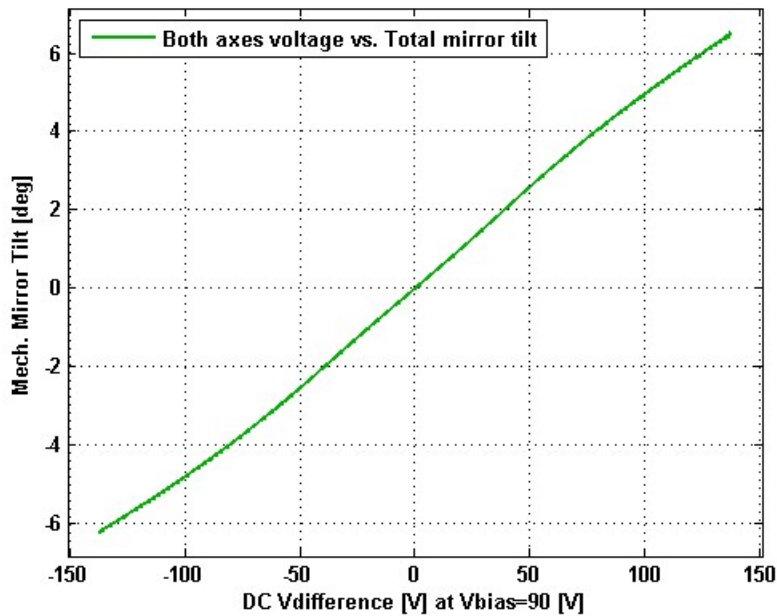
Date and Time Report was Created: 29-Jan-2018 at 14:33:40

Static Response

Voltage vs. Mech. Angle - Individual Axes

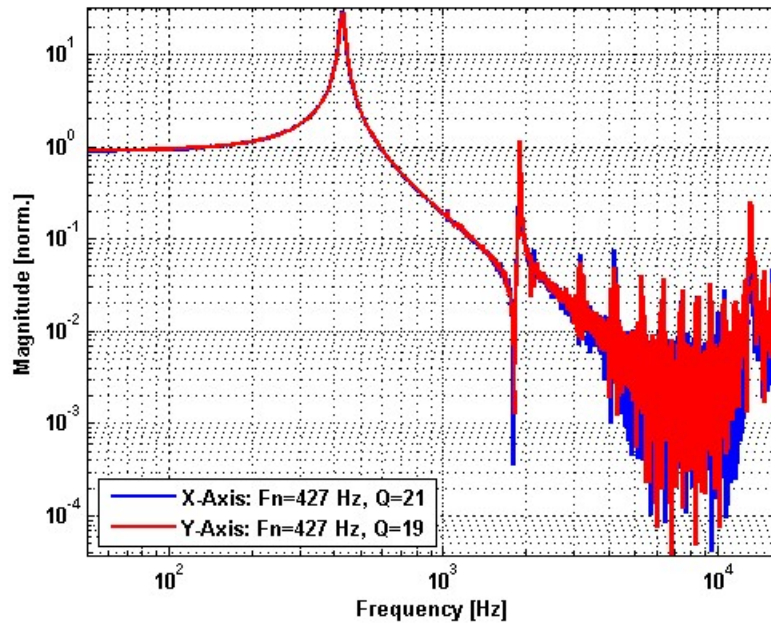


Voltage vs. Mech. Angle - Coupled Axes

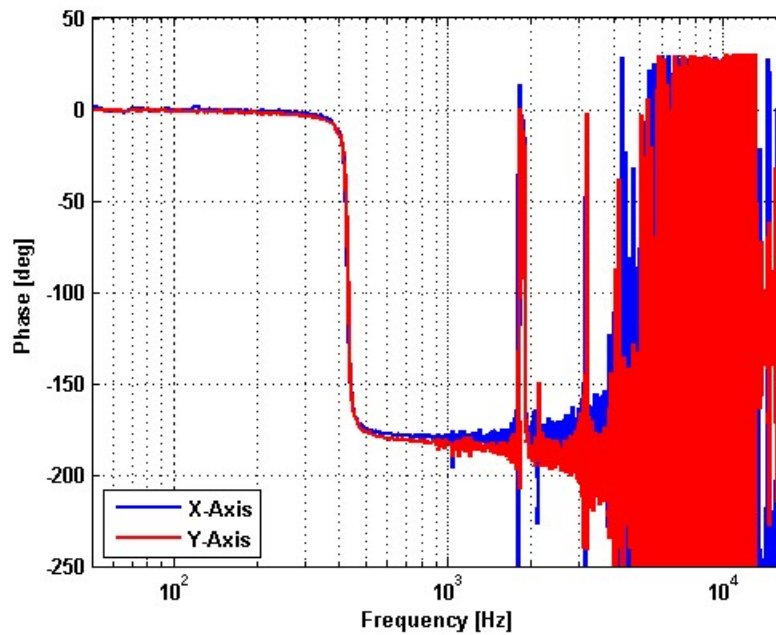


Frequency Response

Small Signal Frequency Response - Magnitude

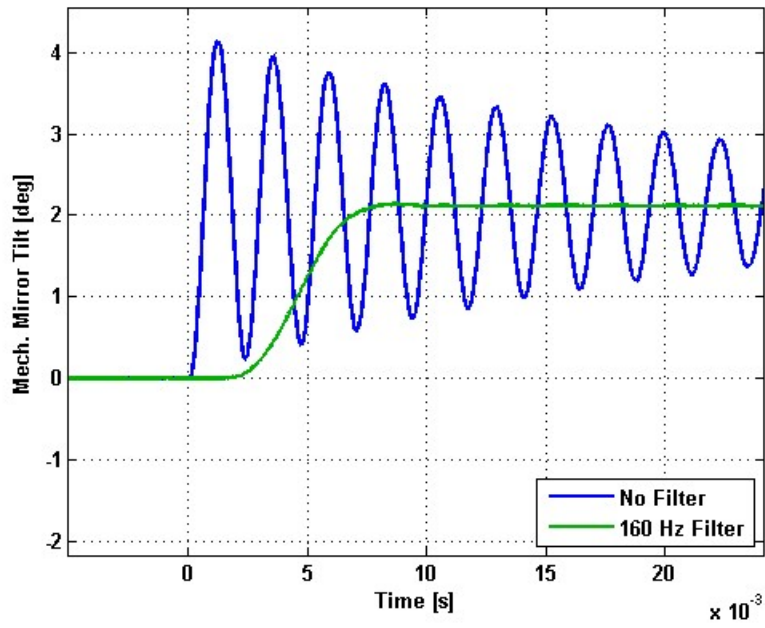


Small Signal Frequency Response - Phase



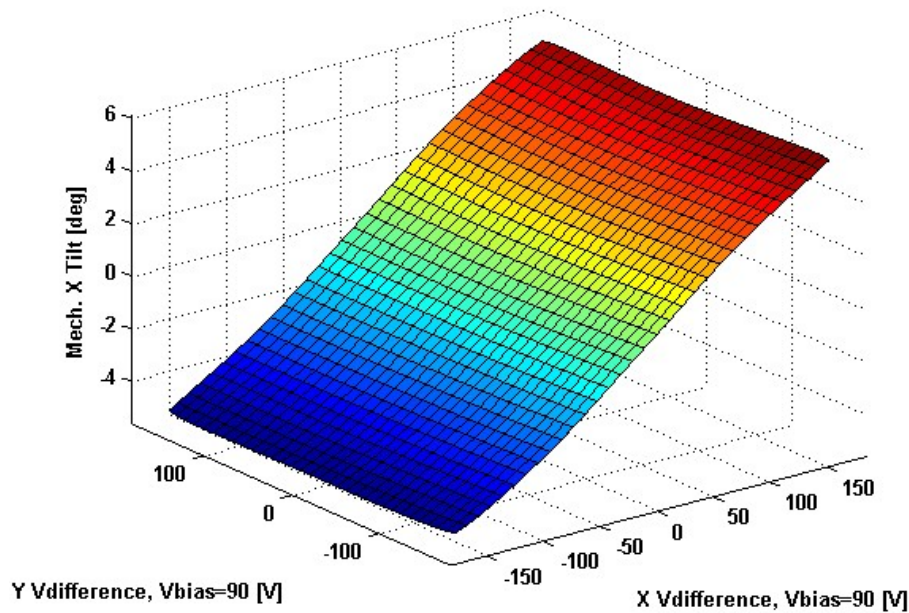
Step Response

X-Axis Step Response



2D Lookup Tables

Voltage vs. X Mech. Angle - Lookup Table



Voltage vs. Y Mech. Angle - Lookup Table

