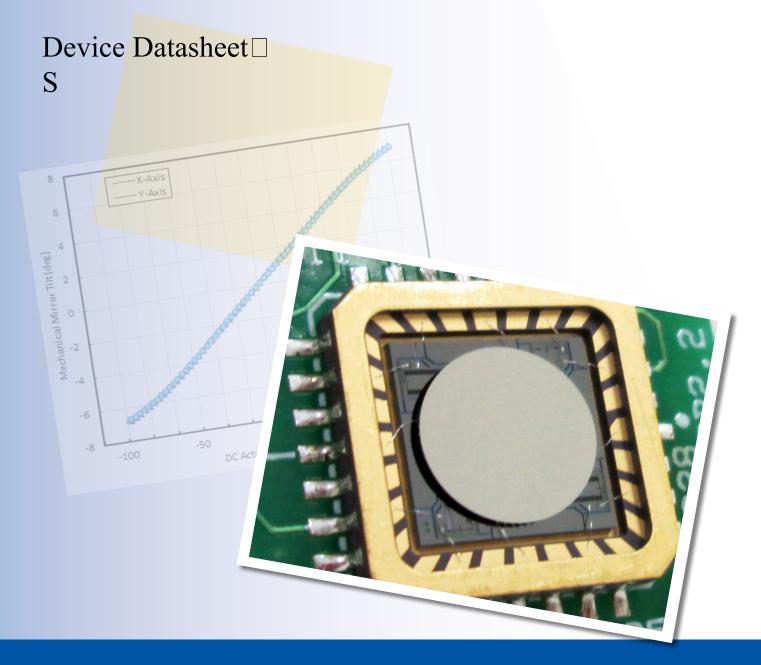


Gimbal-Less Two-Axis Scanning MEMS Micromirrors



Device Parameters Summary

Device ID: S2067

Actuator Type: 13Z2.1

Mirror Type and Size: Bonded mirror of 2.0mm diameter

Mirror Coating: Aluminum

Maximum Angle - X Axis [degrees]: 2.1637

Maximum Angle - Y Axis [degrees]: 2.2443

Maximum Voltage - X Axis [V]: 122

Maximum Voltage - Y Axis [V]: 122

Bias Voltage [V]: 70

Maximum Angle - Coupled Axes [degrees]: 2.7355

Resonant Frequency - X Axis [Hz]: 1997

Resonant Frequency - Y Axis [Hz]: 1948

Quality Factor- X Axis: 37

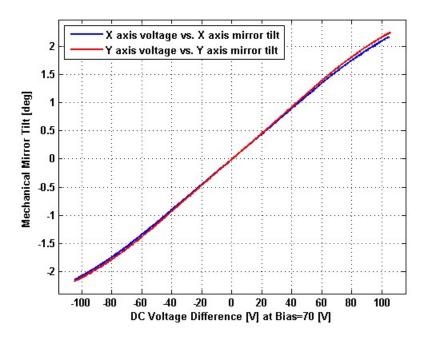
Quality Factor - Y Axis: 40

Recommended LPF Cutoff Frequency (6th Order Bessel): 800

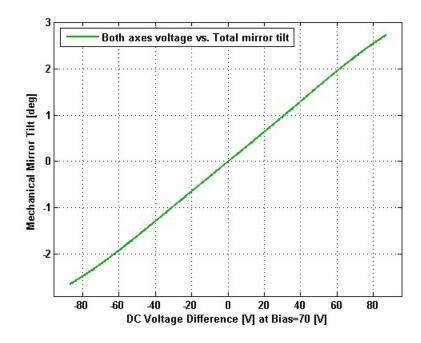
Date and Time Report was Created: 03-Feb-2013 at 23:37:52

Static Response

Voltage vs. Angle - Individual Axes

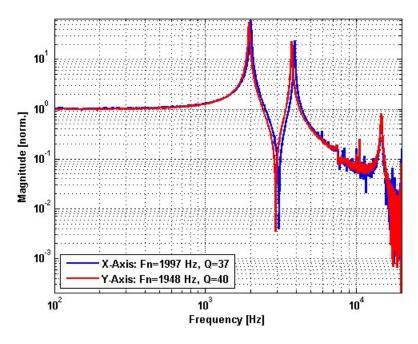


Voltage vs. Angle - Coupled Axes

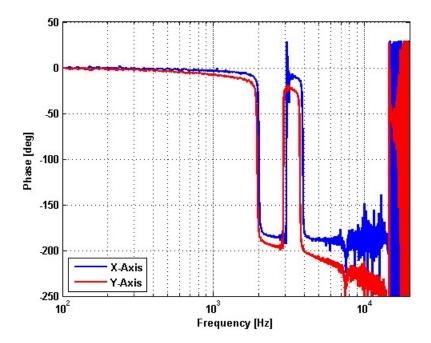


Frequency Response

Small Signal Frequency Response - Magnitude

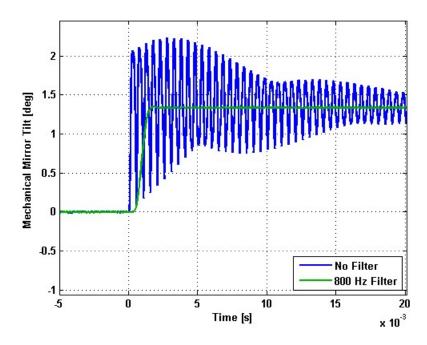


Small Signal Frequency Response - Phase

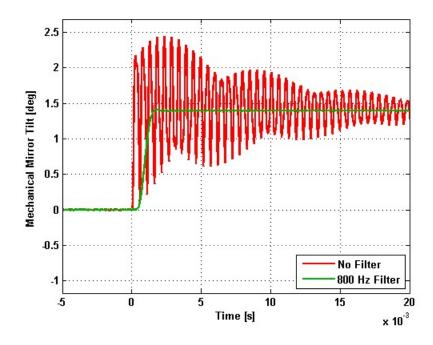


Step Response

X-Axis Step Response

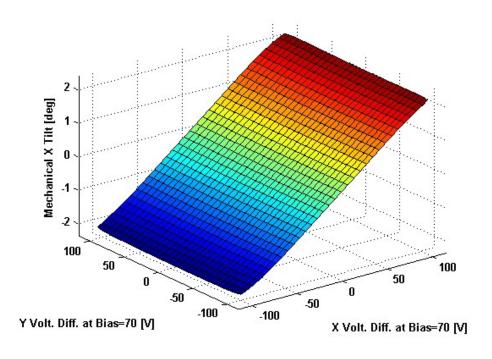


Y-Axis Step Response

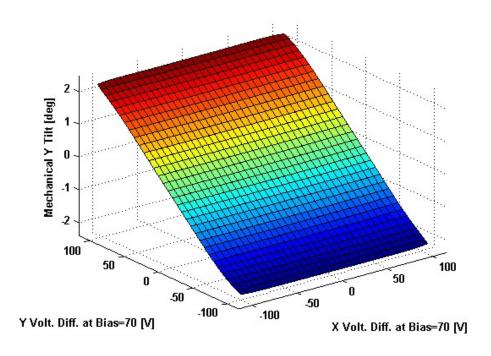


2D Lookup Tables

Voltage vs. X Angle - Lookup Table



Voltage vs. Y Angle - Lookup Table



Y Angle vs. X Angle - Addressable Angles

