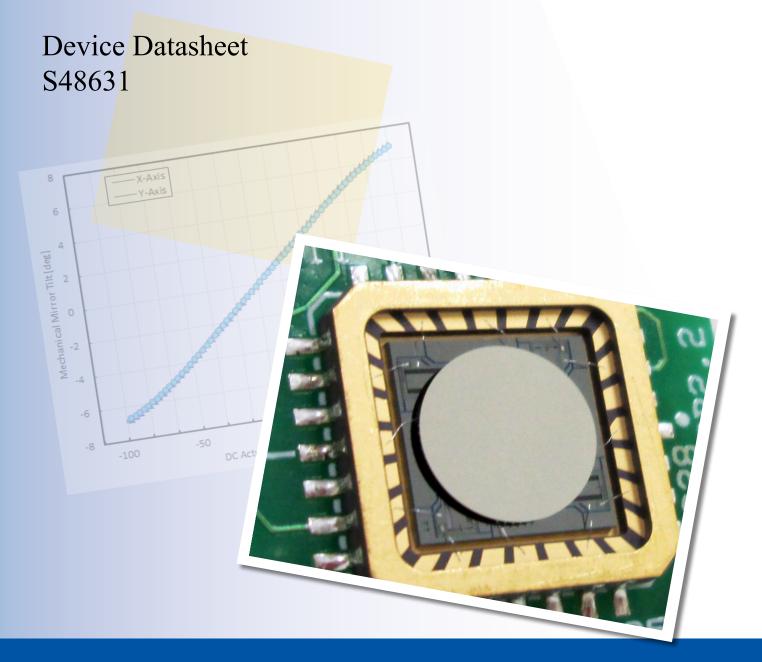


Gimbal-Less Two-Axis Scanning MEMS Micromirrors



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Device Parameters Summary

Device ID : S48631

Actuator Type: A5L2.2

Actuator Mode : Gimbal-less Dual-Axis Quasistatic

Mirror Type and Size : Bonded mirror of 2.4mm diameter

Mirror Coating : Aluminum

Maximum Mech. Angle - X Axis [degrees] : 1.2539

Maximum Mech. Angle - Y Axis [degrees] : 1.2551

Maximum Vdifference - X Axis [V]: 173

Maximum Vdifference - Y Axis [V]: 173

Driver Bias Voltage (Vbias) [V]: 90

Maximum Mech. Angle - Coupled Axes [degrees] : 1.5153

Resonant Frequency - X Axis [Hz]: 3511

Resonant Frequency - Y Axis [Hz]: 3516

Quality Factor - X Axis: 106

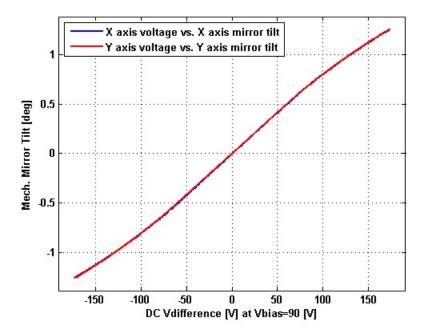
Quality Factor - Y Axis: 103

Recommended LPF Cutoff Frequency (6th Order Bessel) [Hz]: 1400

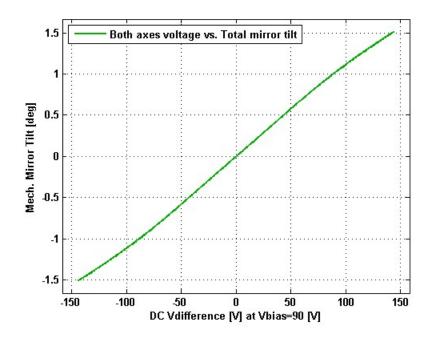
Date and Time Report was Created: 15-Oct-2020 at 18:47:24

Static Response

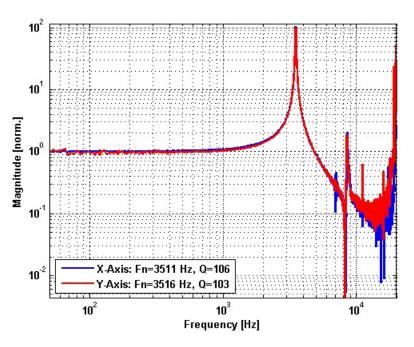
Voltage vs. Mech. Angle - Individual Axes



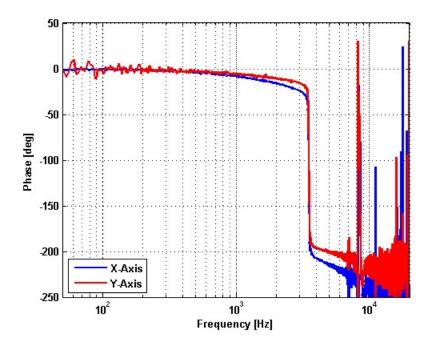
Voltage vs. Mech. Angle - Coupled Axes



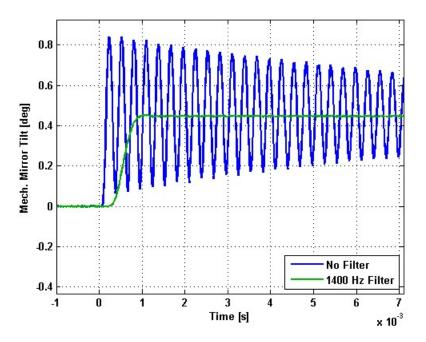
Frequency Response Small Signal Frequency Response - Magnitude



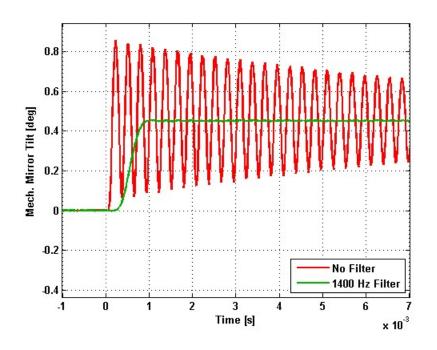
Small Signal Frequency Response - Phase



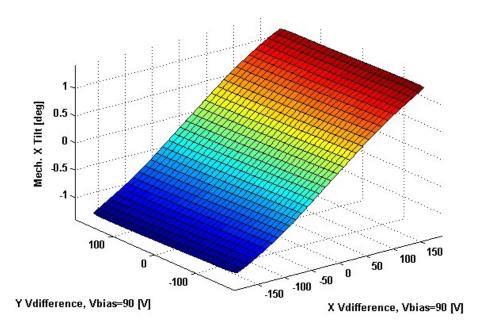
Step Response X-Axis Step Response



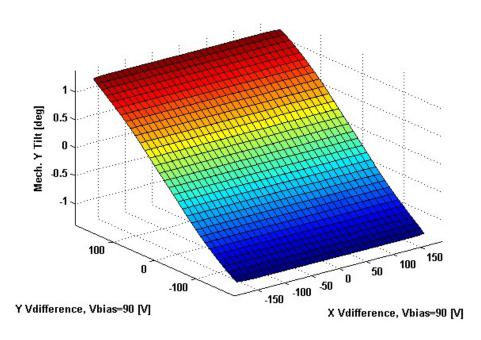
Y-Axis Step Response



2D Lookup Tables Voltage vs. X Mech. Angle - Lookup Table



Voltage vs. Y Mech. Angle - Lookup Table



Y vs. X Tilt - Addressable Mech. Angles

