
Device Parameters Summary

Device ID : S45909_90

Actuator Type: A5M24.3

Actuator Mode : Gimbal-less Dual-Axis Quasistatic

Mirror Type and Size : Integrated mirror of 2400um diameter

Mirror Coating : Aluminum

Maximum Mech. Angle - X Axis [degrees] : 6.2199

Maximum Mech. Angle - Y Axis [degrees] : 6.1436

Maximum Vdifference - X Axis [V] : 171

Maximum Vdifference - Y Axis [V] : 172

Driver Bias Voltage (Vbias) [V] : 90

Maximum Mech. Angle - Coupled Axes [degrees] : 8.0625

Resonant Frequency - X Axis [Hz] : 869

Resonant Frequency - Y Axis [Hz] : 864

Quality Factor - X Axis : 79

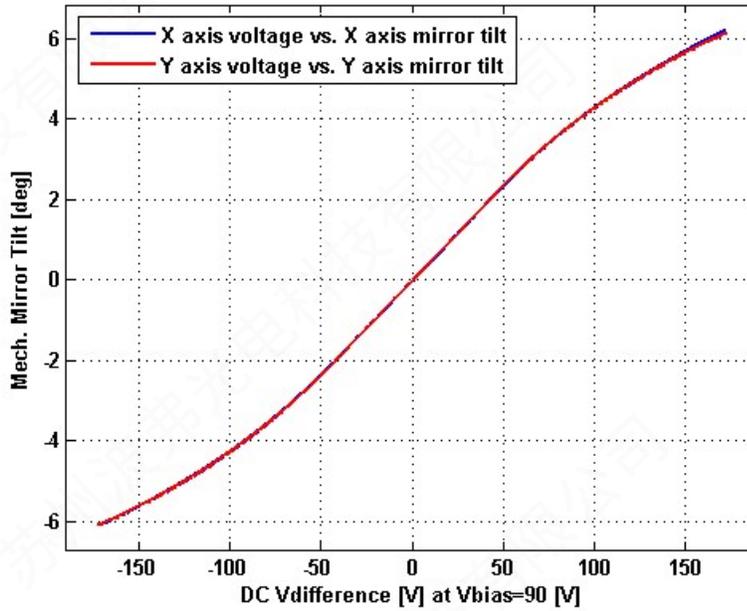
Quality Factor - Y Axis : 78

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

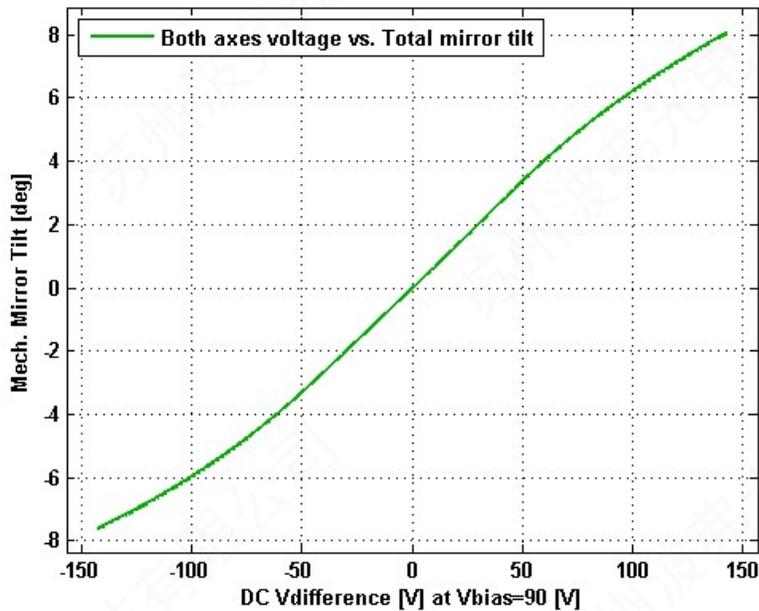
Date and Time Report was Created: 05-Aug-2019 at 16:26:58

Static Response

Voltage vs. Mech. Angle - Individual Axes

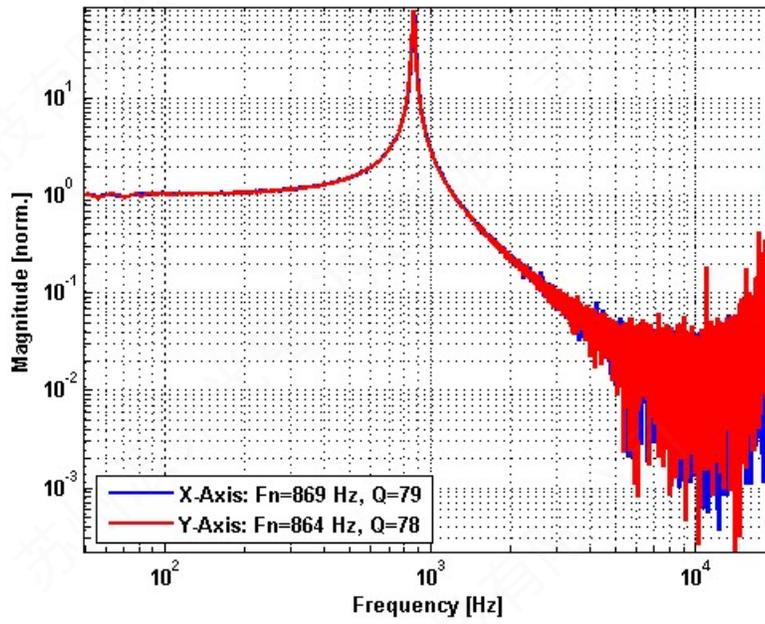


Voltage vs. Mech. Angle - Coupled Axes

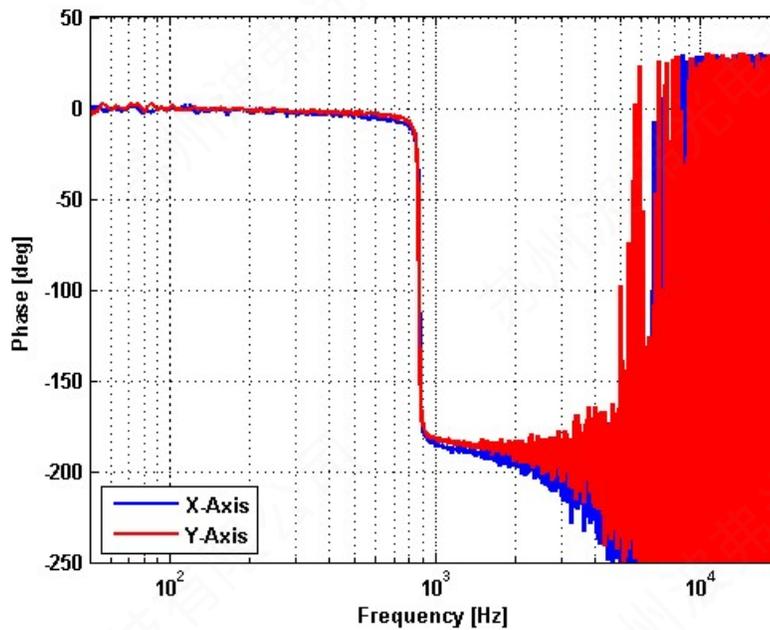


Frequency Response

Small Signal Frequency Response - Magnitude

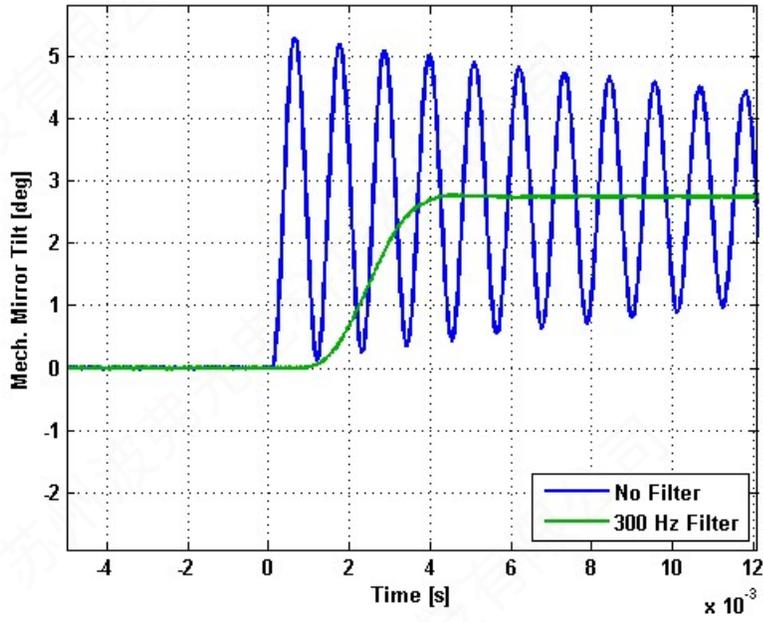


Small Signal Frequency Response - Phase

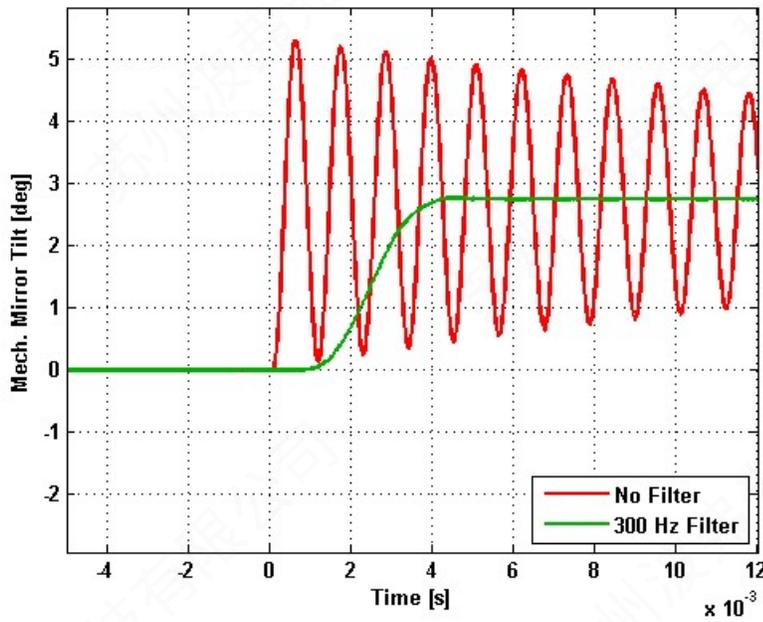


Step Response

X-Axis Step Response

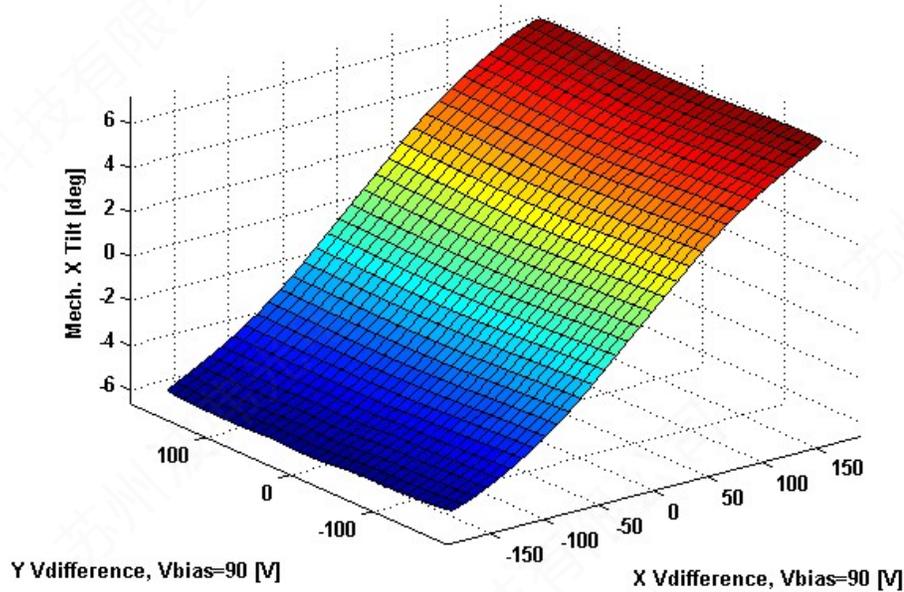


Y-Axis Step Response

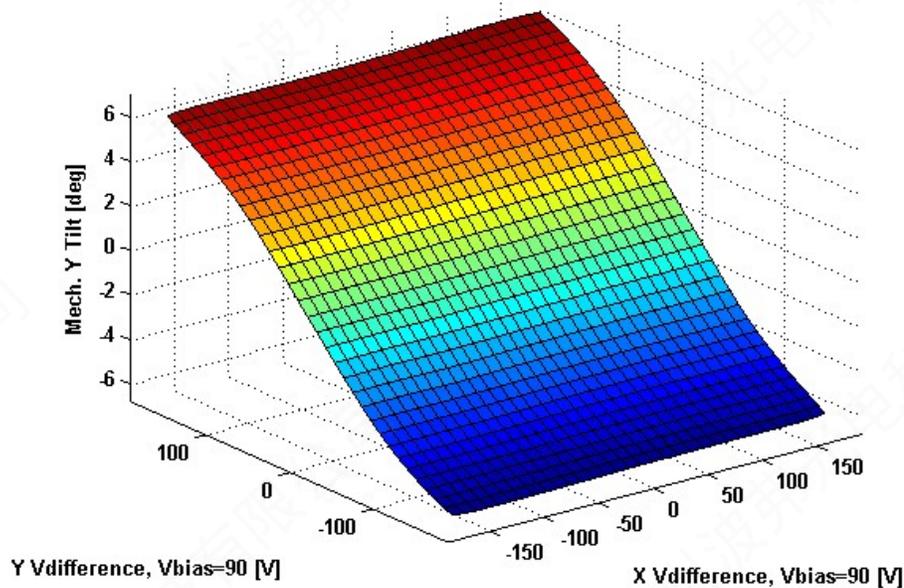


2D Lookup Tables

Voltage vs. X Mech. Angle - Lookup Table



Voltage vs. Y Mech. Angle - Lookup Table



Y vs. X Tilt - Addressable Mech. Angles

