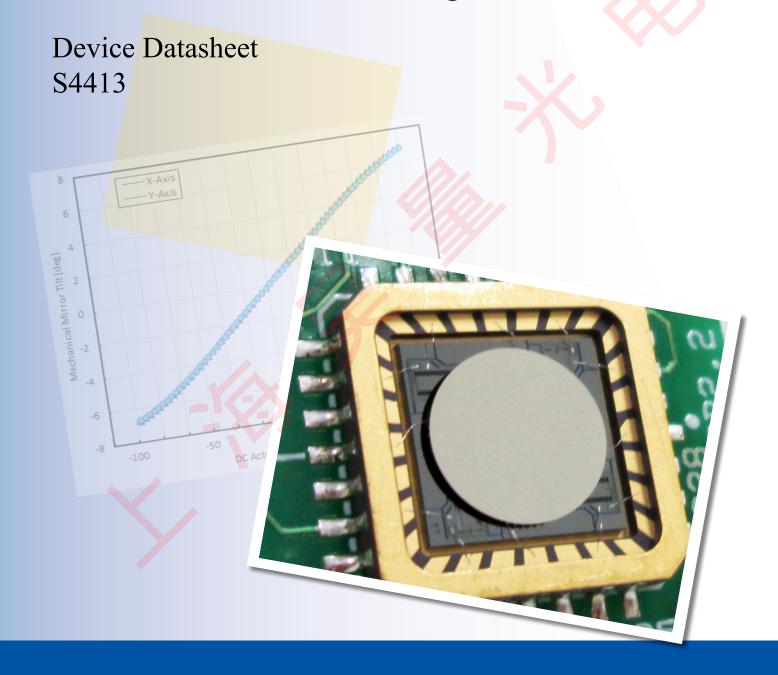


Gimbal-Less Two-Axis Scanning MEMS Micromirrors



www.auniontech.com

Device Parameters Summary

Device ID: S4413

Actuator Name: A7B1.1

Actuator Type: 4-Quadrant (Two-Axis, Bidirectional)

Mirror Type and Size: Bonded mirror of 3.6mm diameter

Mirror Coating: Gold

Maximum Angle - X Axis [degrees]: 6.6005

Maximum Angle - Y Axis [degrees]: 6.5649

Maximum Voltage - X Axis [V]: 140

Maximum Voltage - Y Axis [V]: 139

Bias Voltage [V]: 80

Maximum Angle - Coupled Axes [degrees]: 8.4045

Resonant Frequency - X Axis [Hz]: 303

Resonant Frequency - Y Axis [Hz]: 300

Quality Factor- X Axis: 19

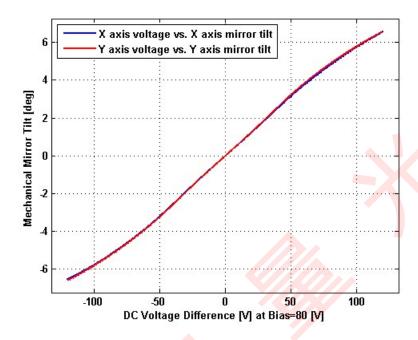
Quality Factor - Y Axis: 16

Recommended LPF Cutoff Frequency (6th Order Bessel): 130

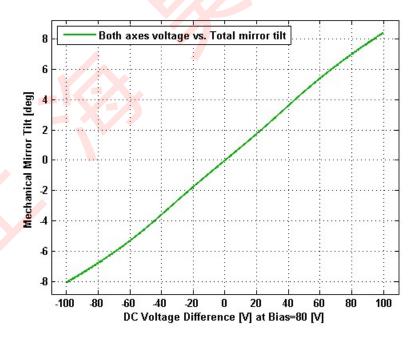
Date and Time Report was Created: 27-Feb-2015 at 14:7:23

Static Response

Voltage vs. Angle - Individual Axes

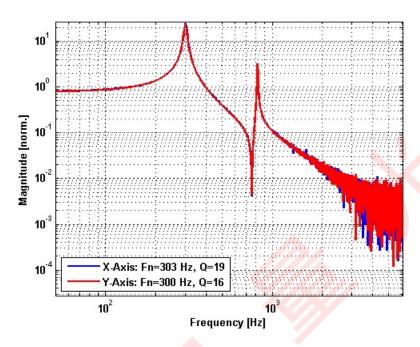


Voltage vs. Angle - Coupled Axes

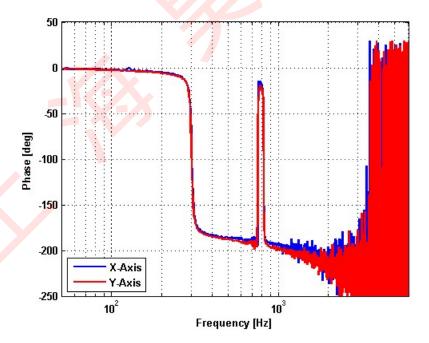


Frequency Response

Small Signal Frequency Response - Magnitude

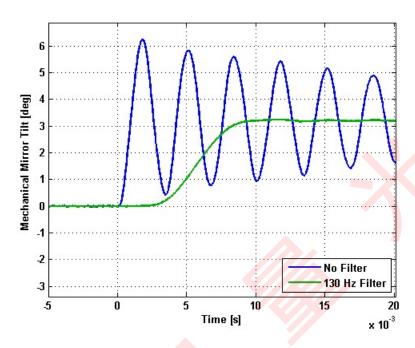


Small Signal Frequency Response - Phase

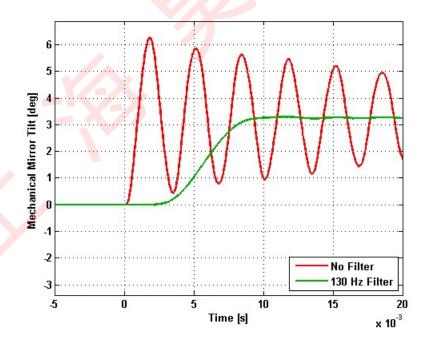


Step Response

X-Axis Step Response

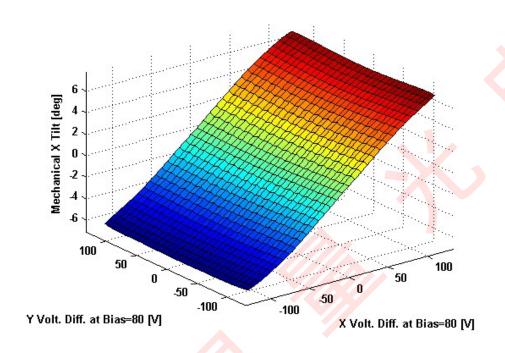


Y-Axis Step Response

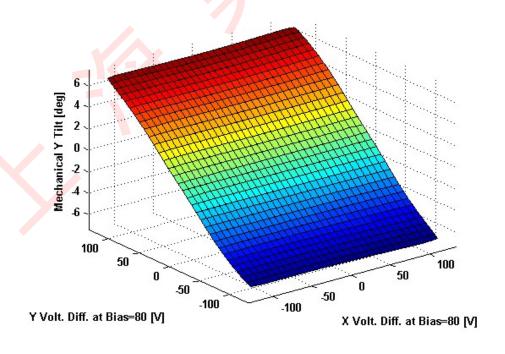


2D Lookup Tables

Voltage vs. X Angle - Lookup Table



Voltage vs. Y Angle - Lookup Table



Y Angle vs. X Angle - Addressable Angles

