



LENS STEERING & STABILIZATION

ORDERING INFORMATION

Part Number Module: S13513000 Part Number Electronics: XCD2-EM1-EM4X



Product description

Nanomotion's LSS module characterized by higher mechanical power density, fast response, and operate as a direct drive. As the response time of piezo is orders of magnitude faster than a dc motor, typically in hundreds of microseconds, it facilitates exceptional steering and stabilization of electro-optical devices.

The fast response coupled with unique SWaP advantages makes Nanomotion's LSS module ideal for responding to external disturbances (<10µm @10Hz, 0.18mm amp) and maintaining position location.









LENS STEERING & STABILIZATION

TECHNICAL SPECIFICATIONS MECHANICAL

Module Weight: <30gr (Based on a lens weight of 3.25 g) Board Weight: <20gr Physical Envelope: see DRW

Physical Envelope: see DRW Optical Alignment: 1.5µRad

DYNAMIC

Speed: ≥ 24 mm/sec Acceleration: ≥ 1 m/sec² Travel per axis: ± 2.4 mm Resolution: < 0.48µm Latency: < 0.5ms

ENVIRONMENTAL

Operating Temperature: -35°c to 75°c Storage Temperature: -35°c to 75°c Rugged Handling: 100g, 10ms Vibration: 3g RMS Thermal Shock Resistance: 20°c/minute Low outgassing

ELECTRICAL

Input Voltage: 5V±3% Communication Protocol: SPI (1KHz) External Power Consumption: 0.75W@STBY, 3W@max

Nanomotion Ltd. Worldwide Headquarters

Mordot HaCarmel Industrial Park Yokneam 20692 Israel t: +972 73 2498000 f: +972 73 2498099 e: nano@nanomotion.com

Nanomotion Inc. U.S. Headquarters

1 Comac Loop, Suite 14B2 Ronkonkoma, New York 11779 t: (800) 821-6266 t: (631) 585-3000 f: (631) 585-1947 e: nanoUS@nanomotion.com

<u>Module</u>



Electronics



