DTT60SM-SG

Double Tip-Tilt

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APPLICATIONS

- Fast steering mirror
- Point ahead mechanism
- Line of sight stabilisation
- Microscanning
- Pointing

KEY FEATURES

- Compact & High Dynamic
- Low capacitance & low power consumption
- Symetric push pull mechanical and electrical design
- Strain Gages sensor (SG)
- Integrated SG conditioner
- High resonance frequency
- EE Prom with recorded performances data
- Rugged to vibrations and shocks

RELATED PRODUCTS

- CCBµ20
- CCBµ40

AVAILABLE OPTIONS

- Vacuum
- Mirror integration

NON CONTRACTUAL PICTURE

PARAMETER	TYPICAL VALUE	UNIT
Quasistatic performances (1)		
Nominal stroke in open loop	11	mrad
Nominal stroke in close loop	10	mrad
Resolution (2)	< 10	µrad
Dynamic performances		
Unloaded Blocked - free resonance frequency (3)	> 1 800	Hz
Loaded Blocked - free resonance frequency with 40mm x 6mm glass mirror (3)	> 790	Hz
Driving		
Voltage range	-20 to +150	V
Capacitance (4)	2.8	µF

ANNOTATIONS

Guaranted in labs environment. A misused can lead to temporary or definitive alterations of properties. Contact CEDRAT TECHNOLOGIES prior using actuators under non standard technical conditions

(1) AC voltage, full range @ 1Hz at Ambient Temperature in open loop

(2) With close loop based on strain gages

(3) Blocked-free: The actuator is fixed to a mechanical support assumed infinitely stiff

(4) Per axis, quasistatic excitation, free-free, +/- 20%, at 1 V RMS without mirror