

DTT15XS-SG

DOUBLE TIP TILT

APPLICATIONS

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

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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
- > Operating Temperature -50°C to +65°C
- > Rugged to vibrations and shocks

RELATED PRODUCTS

- > CCBµ20
- > CCBµ40

AVAILABLE OPTIONS

- > Open loop
- Customisation vs environmental specifications
- > Look up table

AVAILABLE INTERFACES

> Specific mirror interface

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 (2) With low noise amplifier SNR=100dB (3) Blocked-free: The actuator is fixed to a mechanical support assumed infinitely stiff (4) Per axis, quasistatic excitation, free-free, on the admittance curve

(5) unloaded, excluding wires, without mirror



PARAMETER	TYPICAL VALUE	UNIT			
> Quasistatic performances ⁽¹⁾					
Nominal stroke	2	mrad			
Minimal stroke	> 1.4	mrad			
Resolution (2)	< 1	µrad			
> Dynamic performances					
Unloaded Blocked - free resonance frequency ⁽³⁾	> 3.000	Hz			
loaded Blocked - free resonance frequency with rectangular glass mirror 52*42*4 mm ⁽³⁾	> 1.700	Hz			
> Driving					
Voltage range	-20 to +150	V			
Capacitance (4)	<0.6 µF				
> Dimensions & interfaces					
Height ⁽⁵⁾	<24	mm			
Cross section ⁽⁵⁾	<40x40	mm			
Mass ⁽⁵⁾	<110 g				
> Mechanical interfaces	See ICD				
> Optical interface	See ICD				
> Electrical interfaces	See ICD				

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035416-SPE-02 15/06/2020 OMNETICS / AS29100-015 ∢ Product reference Version Ref. : Date Sub-D 15 Female - Horizontal SMT Description LIST OF CONNECTORS Mechanism Name DTT15XS-SG-LT Connectors # sheet # INTER01

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Input

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