

APPLICATIONS

- > Shaker
- > Force generator
- > Heavy load positionner
- > Dynamic Actuator

KEY FEATURES

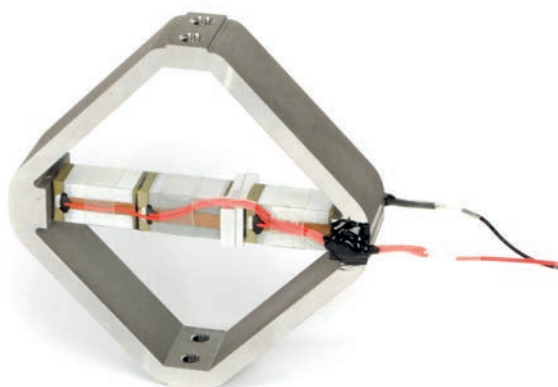
- > High Force
- > Large bandwidth
- > High Dynamic Behavior

AVAILABLE OPTIONS

- > SG sensor
- > Vacuum compatibility

AVAILABLE INTERFACES

- > Threaded hole
- > Non threaded hole



NON CONTRACTUAL PICTURE

PARAMETER	TYPICAL VALUE	UNIT
> Quasistatic performances ⁽¹⁾		
Nominal stroke	65	µm
Minimal stroke	58.5	µm
Blocked force	2710	N
Stiffness	51	N/µm
Resolution ⁽²⁾	3.65	nm
> Dynamic performances		
Force limit (0-peak) ⁽³⁾	1725	N
Free - Free resonance frequency ⁽⁴⁾	7071	Hz
Blocked - free resonance frequency ⁽⁵⁾	2555	Hz
Max forced displacement ⁽⁶⁾	58.5	µm
> Driving		
Voltage range	-20 ... 150	V
Max current ⁽⁷⁾		A
Capacitance	20	µF

> Dimensions & interfaces		
Height	85	mm
Length	82.94	mm
Width (incl. Wedges, wires)	22.5	mm
Mass (excl. Wires)	227	g

> Mechanical interfaces	2 flat surface 9*20 mm ² with 2 x 10-32 UNF
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> Electrical interfaces ⁽⁷⁾	2 PTFE insulated AWG26 wires 300mm long with Ø1 banana plug
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ANNOTATIONS

Guaranteed 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

(2) With low noise amplifier SNR=1dB

(3) Pulling or pushing force, valid up to 1/3 of the unloaded blocked-free resonance frequency

(4) Free-free: The actuator mounts are free

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

(6) Maximal allowed displacement under external on-axis force

(7) Specific wires and interfaces available for higher current

