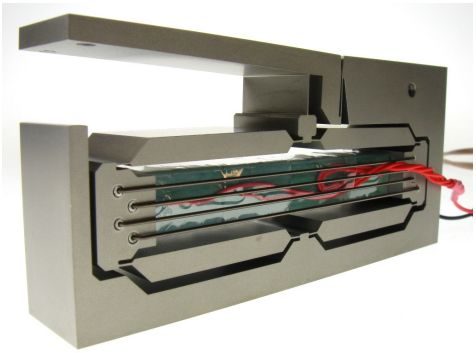
LFPA-10000-S-1072-150-TI
FlexFrame PiezoActuator™

Description

DSM's LFPA actuators are designed for applications that require a large travel range. The actuators were designed to oscillate specimens in a high magnetic field and are constructed of titanium and other non-ferromagnetic materials. The two-stage amplification enables the design to achieve a travel range of 10 mm at the mechanism's output.



Specifications

		Units	Tolerance
Motion Direction	Contracting		
Nominal Travel, 0V to 150V	8000	µm	Min 6800
Nominal Travel, -30V to 150V	10000	µm	Min 8500
Nominal Stiffness	0.002	N/µm	Min 0
Unloaded Resonant Frequency	70	Hz	±20%
Blocked Force*	16	N	
Capacitance	26.40	µF	±20%
Material	Titanium		
Mass**	320	g	
Electrical Interface	Flying leads		
Mechanical Interface	Clearance Holes x4		
Height	47	mm	
Width	106	mm	
Depth	19	mm	

* Blocked force calculated as [Stiffness x Travel Range at 0V to 150V]

** Mass stated for reference

Options

- Integrated Position Sensor
- Vacuum Compatibility
- Custom Mounting Holes
- Custom wire lengths and connectors
- Non-Magnetic compatibility