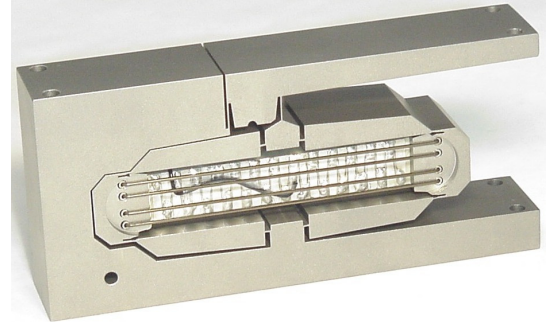


Description

DSM's LFPA actuators were designed to oscillate biological specimens within the high magnetic field of a magnetic resonance imaging (MRI) system. The actuators are constructed of titanium and other non-ferromagnetic materials. The two-stage amplification enables the designs to achieve translation ranges of 6 and 10 mm, respectively, at the mechanisms' output.



Specifications

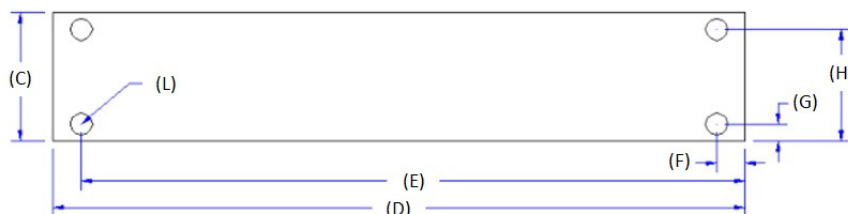
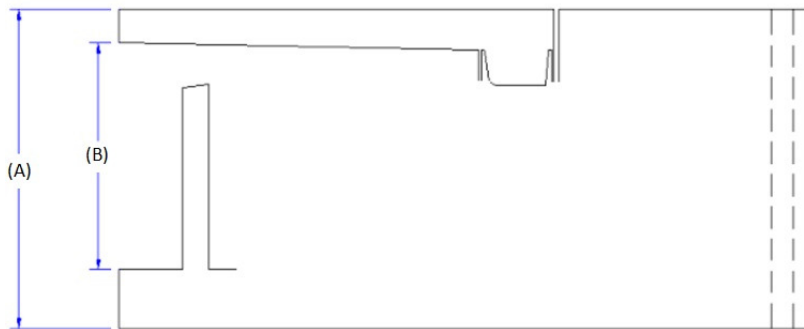
		Tolerance
Open-loop Travel (μm):	10000	$\pm 10\%$
Operating Voltage (V):	-30 to +150	
Stiffness in motion direction ($\text{N}/\mu\text{m}$):	0.002	$\pm 10\%$
Unloaded resonant frequency (Hz):	70	
Blocking Force (N):	20	$\pm 10\%$
Capacitance (μF):	32.00	Max
Material:	Ti 6AL 4V	
Mass (g):	0	$\pm 5\%$

Options

(Contact DSM for current option pricing)

- M4 Tapped Mounting Holes
- Vacuum compatibility
- Connectors: Custom wire lengths and connectors available for your project
- Non-Magnetic compatibility

Geometry



	(mm)	(in)
Dim A:	47.1	1.9
Dim B:		
Dim C:	19	0.7
Dim D:	106.2	4.2
Dim E:	102.1	4
Dim F:	4.1	0.2
Dim G:	2.5	0.1
Dim H:	16.5	0.6
Dim I:		
Dim J:		
Dim K:		
Dim L :	Clearance Holes x4 (3.3mm, 0.1285")	