

Piezocomposite – bare ring type actuators series HPSt

Series HPSt without casing and without preload, diameter 10 – 5 mm, 500 V and 1000 V

Characteristics:

- max. load: 3500 N
- max. force generation: 2800 N (@ max. voltage)
- free opening
- heat abstraction

Applications:

- laser adjustment
- shock wave generation
- stabilization
- sensor testing
- test and acceleration sensors
- active vibration damping
- as well as all kinds of positioning tasks which require high loads and/or extreme accelerations

Options:

- piezo material HP (high power, high capacitance)
- low temperature modification
- UHV modification
- SG measurement system



Image: Ring type actuators with different dimensions

Standard configuration

		unit		
cable length	without connector	m	0.08	
ceramic		–	HS/HT	HP*
temperature range		°C/°F	to 200/to 390	to 90/to 190

* optional on request

Piezocomposite – stack type actuators series PSt

Series HPSt 500 V, diameter 10 – 5 mm

type	max. stroke* [μm]	length [mm]	capacitance [nF]	stiffness** [N/μm]	resonant frequency [kHz]
HPSt 500/10–5/7	12/7	9	65	200	40
HPSt 500/10–5/15	25/17	18	180	100	25
HPSt 500/10–5/25	35/25	27	260	70	20

* Motion at voltage -100 V to 500 V/0 V to 500 V

** Determined with short-circuited actuator respectively connected amplifier.

Series HPSt 1000 V, diameter 10 – 5 mm

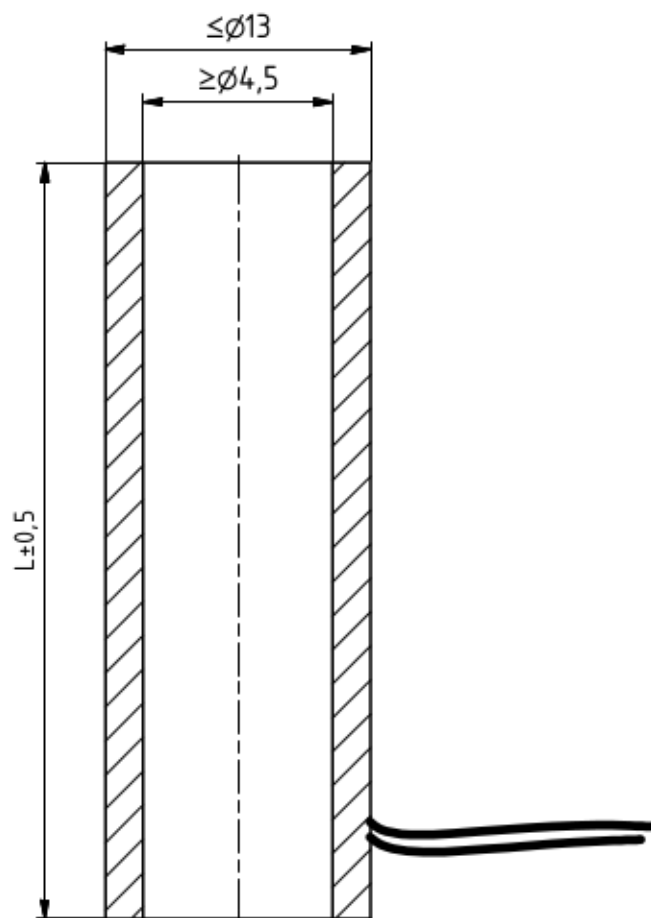
type	max. stroke* [μm]	length [mm]	capacitance [nF]	stiffness** [N/μm]	resonant frequency [kHz]
HPSt 1000/10–5/7	12/7	9	15	210	50
HPSt 1000/10–5/20	25/17	18	40	110	35
HPSt 1000/10–5/25	35/25	27	65	75	25
HPSt 1000/10–5/40	55/40	36	90	55	20
HPSt 1000/10–5/60	80/60	54	140	35	15
HPSt 1000/10–5/>60	>60			on request	

* Motion at voltage -200 V to 1000/0 V to 1000 V

** Determined with short-circuited actuator respectively connected actuator.

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Drawing:



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