

Piezocomposite – stack type actuators series PSt

Series PSt without casing and without preload, diameter 10 mm, 1000 V

Characteristics:

- max. load: 5000 N
- max. force generation: 4000 N (@ max. voltage)

Applications:

- shock wave generation
- stabilization
- sensor testing
- test and acceleration sensors
- active vibration damping
- fuel injection
- active engine mounting
- 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: Stack type actuators series PSt 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

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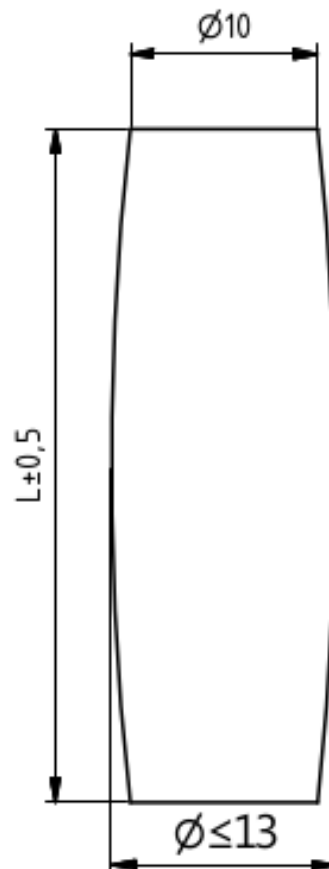
Series PSt 1000 V, diameter 10 mm

type	max. stroke* [μm]	length [mm]	capacitance [nF]	stiffness** [N/ μm]	resonant frequency [kHz]
PSt 1000/10/7	12/7	9	20	300	60
PSt 1000/10/20	24/18	18	45	150	40
PSt 1000/10/25	35/25	27	85	100	30
PSt 1000/10/40	55/40	36	110	75	25
PSt 1000/10/60	80/60	54	170	50	20
PSt 1000/10/80	105/80	72	220	35	15
PSt 1000/10/~80	>80	on request			

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

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

Drawing:



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