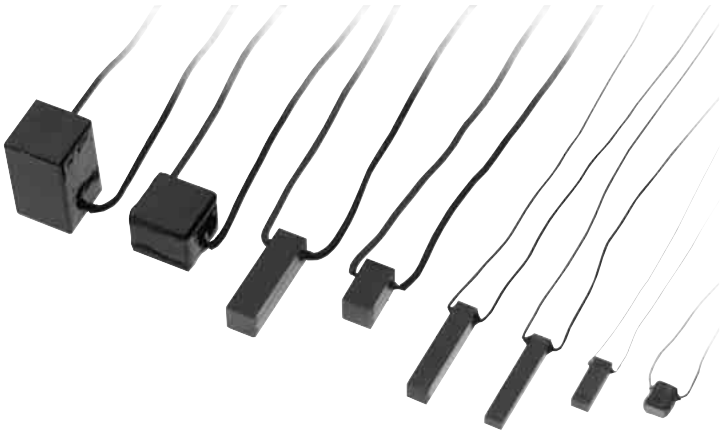
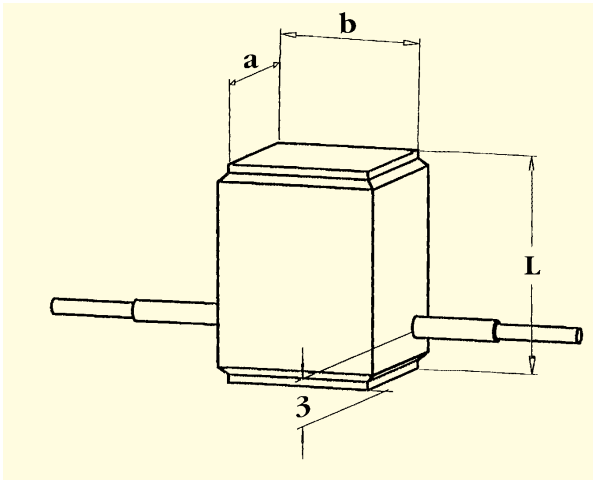
Piezomechanik GmbH

OEM low voltage multilayer stacks





General data: see section 1.2.1.

Open loop sensitivity at 1 mV noise:
for actuators 150/X/7: approx. 0.05 Nanometer
for actuators 150/X/20: approx. 0.1 Nanometer
(see 2.9.)

Thickness of coating: up to 0.5 mm

Type	dimensions mm	max. stroke µm	el. capacitance nF	stiffness N/µm	resonance frequency kHz	max. force generation N	max. compr. load N
PSt 150/2x3/5	2x3xL = 5	**7**/5	70	45	120	300	300
PSt 150/2x3/7	2x3xL = 9	**15**/9	170	25	70	300	300
PSt 150/2x3/20	2x3xL = 18	**30**/20	340	12	35	300	300
PSt 150/3.5x3.5/7	3.5x3.5xL = 9	**15**/9	350	50	70	800	800
PSt 150/3.5x3.5/20	3.5x3.5xL = 18	**30**/20	800	25	35	800	800
PSt 150/5x5/7	5x5xL = 9	**15**/9	700	120	70	1800	2000
PSt 150/5x5/20	5x5xL = 18	**30**/20	1800	60	35	1800	2000
PSt 150/7x7/20	7x7xL = 18	**30**/20	3600	120	35	3500	4000
PSt 200/10x10/3	10x10xL = 3	**4**/3	500	1500	300	5000	8000
PSt 150/10x10/7	10x10xL = 9	**12**/9	3600	500	70	7000	8000
PSt 150/10x10/20	10x10xL = 18	**30**/20	7200	250	35	7000	8000
PSt 150/14x14/18	14x14xL = 20	**25**/18	10500	500	32	11000	16000

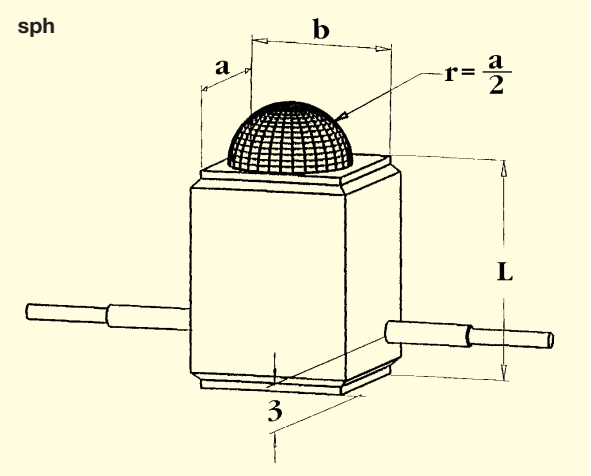
Stroke A/B: A: for –30 V thru + 150 V
B: for 0 V thru + 150 V

Max. force generation: for –30 V thru + 150 V

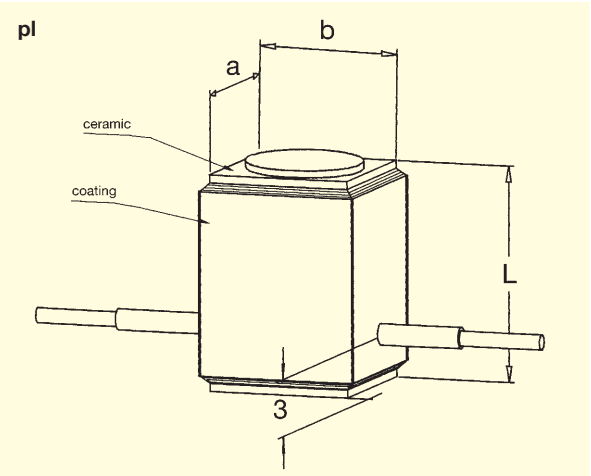
Stacks PSt 60/...for driving voltage –10 V thru +60 V: on request

Options

Spherical end pieces **sph** from ultra hard corundum:
Order code e.g. PSt 150/5x5/20 sph,
when not otherwise stated, end piece is added to moving end.



Plane end face **pl** from corundum for high local pressure input:
Ordering code e.g. PSt 150/5x5/20 pl,
when not otherwise stated, end piece is added to moving end.



Other configurations

Mechanical end pieces for fixed end (e.g. with tapped)
Longer OEM stacks for wider stroke on request.

INNOTICS INC.
#Rm1016, Sam-Poong B/D, 310-68, Eul-Gi-4Ga, Joon-Gu,
100-849, Seoul, Republic of KOREA
Tel. :+82-2-2276-1013
Fax. :+82-2-2274-0469
Website : www.innotics.com
E-mail : sales@innotics.com