



## Overview Piezoceramic Benders

### Typical Characteristic Values

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Some of our Piezoceramic Bending Actuators and their typical characteristic values.

Typ	1	2	3	4	5	6	7	8	9	10
Total length [mm]	50.0	49.0	47.4	47.4	47.0	36.0	32.5	25.0	12.5	9.0
Free length [mm]	38.0	38.0	38.0	38.0	38.0	30.0	27.5	18.0	9.5	6.5
Width [mm]	7.2	2.1	1.93	1.5	5.9	2.1	1.9	7.2	11.0	1.0
Thickness [mm]	0.81	0.8	0.8	0.8	0.8	0.67	0.7	0.48	0.78	0.5
Total displacement [mm] <sup>1)</sup>	2.1	2	2.2	2	2.8	1.5	1.4	0.07	0.14	0.07
Blocking force on each side F <sub>b</sub> [mN] <sup>1),2)</sup>	500	170	180	120	450	160	150	110	2300	130
Capacity per ceramic side C [nF] <sup>3)</sup>	45	11	20	10	58	11	13.5	35	18/23 <sup>5)</sup>	1.8/2.1 <sup>6)</sup>
Driving voltage U [V] <sup>4)</sup>	230	230	230	230	230	230	230	24	230	130

- 1) Total displacement and blocking force will be determined at U at the specified free length and at room temperature.
- 2) The deflected actuator will be pressed back to zero position to determine F<sub>b</sub>.
- 3) Capacity will be measured at 1 V / 1 kHz and room temperature.
- 4) The voltage can be selected to be lower or higher according to the application requirements, whereby lower/higher voltages lead to lower/higher displacement and blocking force.
- 5) With a ceramic length of 10.5 mm and 12.5 mm.
- 6) With a ceramic length of 7.7 mm and 9 mm.

All values are approximate and no guarantee of specific technical properties.

Changes in the course of technical progress are possible without notice.

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