

Data sheet for bending actuators* (parallel construction)

*The actuators are described in this schedule shall only give you a first overview and can be modified in accordance to your requirements.

	Trimorph - carbonfiber 427.0090.XXX	Tol.[mm] (+/-)	Trimorph - carbonfiber 427.0083.12A	Tol.[mm] (+/-)	Trimorph - carbonfiber for SITEX-Modules	Tol.[mm] (+/-)	Trimorph - carbonfiber 427.0083.XXX	Tol.[mm] (+/-)
Dimensions:								
Length:	9.00 mm	0.10	49.00 mm	0.10	49.95 mm	0.05	93.00 mm	0.10
Length of ceramic:	7.00 mm	0.10	45.50 mm	0.10	45.00 mm	0.10	88.05 mm	0.10
Length of	-----		3.50 mm		4.95 mm		4.95 mm	
Width:	1.00 mm	0.05	2.10 mm	0.10	7.20 mm	0.10	22.00 mm	0.10
Thickness:	not coated)	0.48 mm	0.78 mm	0.03	0.78 mm	0.03	0.78 mm	0.03
	(coated)	0.50 mm	0.80 mm	0.05	0.80 mm	0.05	0.80 mm	0.05
Thickness of carrier:	0.20 mm	0.05	0.28 mm	0.05	0.28 mm	0.05	0.24 mm	0.05
Deflection:	2.2 µm	0.3 µm	1.60 mm	0.30	1.70 mm	0.30	6.20 mm	1.00
Blocked force:			250 mN	20%	600 mN	20%	1300 mN	20%
Capacity of half of ceramics:	3.00 nF	20%	12 nF	20%	43 nF	20%	240 nF	20%
Temperature and humidity:								
Temperature:	5 - 60°C		5 - 60°C		5 - 60°C		5 - 60°C	
Humidity max:	55%*		55%*		55%*		55%*	
* ≥ 55% r.H. (a coating is necessary)								
Electrical Voltage:								
recommended:	200V		200V		200 V		200 V	
max:	230V		230V		230 V		230 V	