

2-PIEZO LAYER BENDING & EXTENSION MOTORS NON-MAGNETIC

DESCRIPTION

Non-magnetic piezo bending and extension motors are fabricated using piezoceramic with non-magnetic electrodes and non-magnetic reinforcing materials. They exhibit no magnetic permeability and generate no external magnetic field.

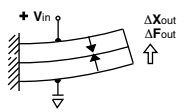
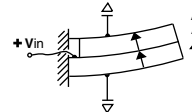
Performance is similar to standard brass shim elements of similar size and thickness (see pages 29-32) but capacitance, deflection, and force are reduced by ~ 15%. Suitable for cryogenic and vacuum use.

Custom sizes upon request. Maximum size: 1.75" (44.5mm) long x 1.75" (44.5mm) wide.

ROHS: Compliant.

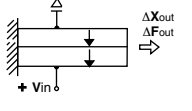
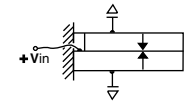
PERFORMANCE: NON-MAGNETIC BENDING MOTORS (Cantilever Mount)

VALUES TO BE USED AS GUIDELINES

PART NUMBERS: NON-MAGNETIC BENDING MOTOR		WEIGHT (Grams)	STIFFNESS (N/m)	CAPACITANCE (nF)		RATED VOLTAGE (Vp) (Series Operation)	RATED VOLTAGE (Vp) (Parallel Operation)	RESONANT FREQUENCY ① (Hz)	FREE DEFLECTION ① (µm)	BLOCKED FORCE ① (N)
				CAPACITANCE (nF) (Series Operation)	CAPACITANCE (nF) (Parallel Operation)					
.020" (.51mm) THICK										
T220-A3NM-103X	T220-A3NM-103Y	.40	2.5x10 ²	2.9	12	± 180	± 90	350	± 210	± .06
T220-A3NM-203X	T220-A3NM-203Y	.80	5.5x10 ²	5.9	24	± 180	± 90	350	± 210	± .12
T220-A3NM-303X	T220-A3NM-303Y	1.6	1.1x10 ³	13	49	± 180	± 90	350	± 210	± .23

PERFORMANCE: PERFORMANCE: NON-MAGNETIC EXTENSION MOTORS

VALUES TO BE USED AS GUIDELINES

NON-MAGNETIC EXTENSION MOTORS		WEIGHT (Grams)	STIFFNESS (N/m)	CAPACITANCE (nF)		RATED VOLTAGE (Vp) (Series Operation)	RATED VOLTAGE (Vp) (Parallel Operation)	RESONANT FREQUENCY ① (Hz)	FREE DEFLECTION ① (µm)	BLOCKED FORCE ① (N)
				CAPACITANCE (nF) (Series Operation)	CAPACITANCE (nF) (Parallel Operation)					
.020" (.51mm) THICK										
T220-A3NM-103Y	T220-A3NM-103X	.40	2x10 ⁶	2.9	12	± 180	± 90	29,500	± 2.7	± 5.9
T220-A3NM-203Y	T220-A3NM-203X	.80	4x10 ⁶	5.9	24	± 180	± 90	29,500	± 2.7	± 12
T220-A3NM-303Y	T220-A3NM-303X	1.6	9x10 ⁶	13	49	± 180	± 90	29,500	± 2.7	± 24

① -103, -203, and -303 performance based on 1.0" length. -503 performance based on 2.0" length.

PRICE & ORDERING INFORMATION

1 pc 5 25 100

	X-POLED	Y-POLED	UNIT PRICE			
Non-Magnetic Element, -103 size	T220-A3NM-103X	T220-A3NM-103Y	\$110	\$45	\$22	\$13
Non-Magnetic Element, -203 size	T220-A3NM-203X	T220-A3NM-203Y	\$120	\$60	\$30	\$18
Non-Magnetic Element, -303 size	T220-A3NM-303X	T220-A3NM-303Y	\$135	\$75	\$45	\$33