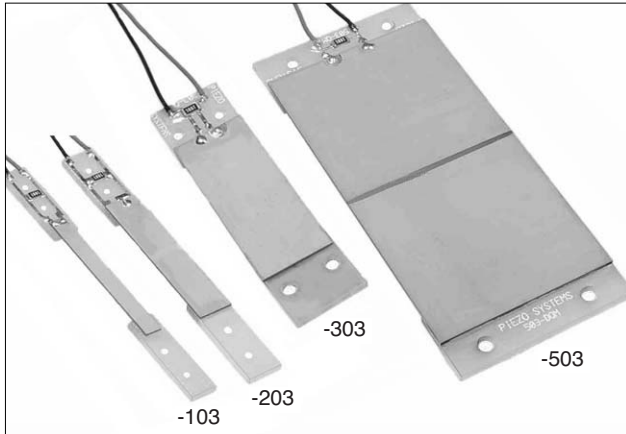


STD. DOUBLE-QUICK-MOUNT EXTENSION GENERATORS PRE-MOUNTED AND WIRED, TWO ENDS



DESCRIPTION

When a mechanical force causes a suitably wired and polarized 2-layer element to extend (or contract), both layers are stretched (or compressed) at the same time. Charge develops across each layer in an effort to counteract the imposed strain. This charge may be collected for strain sensing or power generation.

Double Quick-Mount extension sensors save users the trouble of mounting and wiring transducer elements. They are easily attached and removed from equipment using the two clearance holes in the PCB mounts. They are wired for parallel operation. The user may opt to remove the board mounted bleed resistor which protects the transducer and user electronics from transient voltages arising from thermal and mechanical shocks. The user mounts the transducer to the source of mechanical strain.

Standard Double Quick-Mount Extenders are more economically priced than other Double Quick-Mount configurations, and are generally stocked for immediate delivery.

Standard Double Quick-Mount Extenders employ T220-A4-103X, T220-A4-203X, T220-A4-303X or T220-A4-503X standard brass reinforced transducers.

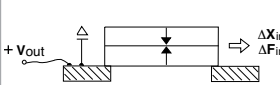
Dimensions for Standard Double-Quick-Mounts are shown on [page 46](#).

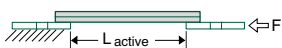
Custom configurations and sizes: Upon request.

ROHS: Compliant.

PERFORMANCE: DOUBLE QUICK-MOUNT BENDING GENERATORS (Cantilever mount)

VALUES TO BE USED AS GUIDELINES

PART NUMBERS DOUBLE QUICK-MOUNT EXTENSION GENERATORS  X-poled for parallel bending operation (3 wire).	PIEZO MATERIAL	WEIGHT (grams)	STIFFNESS (N/m)	CAPACITANCE (nF) (Parallel Operation)	RATED TIP DEFLECTION ① ($\mu\text{m}_{\text{peak}}$)	RATED FREQUENCY ① (Hz)	OPEN CIRCUIT VOLTAGE ① At rated deflection, parallel operation (V _{peak})	CLOSED CIRCUIT CURRENT ① Per sinusoidal cycle, at rated deflection, parallel operation. ($\mu\text{A}_{\text{peak}}$ / Hz)	RATED OUTPUT POWER ① At rated deflection and frequency (mW _{rms})
D220-A4-103XE	5A4E	1.1	2×10^6	12	± 13	1500	± 64	± 5	60
D220-A4-203XE	5A4E	1.7	3×10^6	26	± 13	1500	± 64	± 10	120
D220-A4-303XE	5A4E	2.7	7×10^6	52	± 13	1500	± 64	± 21	240
D220-A4-503XE	5A4E	10.4	8×10^6	260	± 25	750	± 64	± 105	630



-103, -203, and -303 Double Quick-Mount extension generator performance is based on an active extension length of 1.0". -503 performance based on 2.0" active length. Double Quick-Mount performance is based on the force being applied at the outermost tip of the mount.

PRICE & ORDERING INFORMATION

PART NO.

1 pc

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25

100

Std Double QM Extension Generator, -103 Size	D220-A4-103XE	\$184	\$104	\$69	\$53
Std Double QM Extension Generator, -203 Size	D220-A4-203XE	\$189	\$114	\$74	\$56
Std Double QM Extension Generator, -303 Size	D220-A4-303XE	\$209	\$134	\$84	\$67
Std Double QM Extension Generator, -503 Size	D220-A4-503XE	\$249	\$179	\$134	\$109