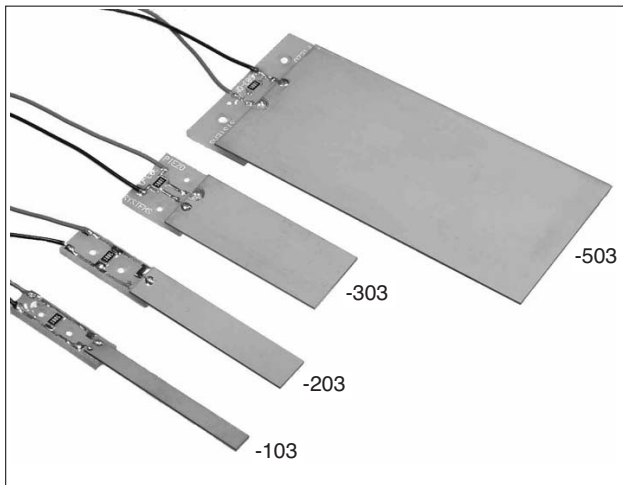


STANDARD QUICK-MOUNT EXTENSION GENERATORS PRE-MOUNTED AND WIRED, ONE END



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.

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 mount. 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 provides the connection between the transducer tip and the mechanical source.

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

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

Dimensions for Standard Quick-Mounts are shown on [page 39](#).

Custom configurations and sizes: Upon request.

ROHS: Compliant.

PERFORMANCE: QUICK-MOUNT EXTENSION GENERATORS (Cantilever mount)

VALUES TO BE USED AS GUIDELINES

PART NUMBERS (QUICK-MOUNT EXTENSION GENERATORS)	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})
Q220-A4-103XE	5A4E	0.9	2×10^6	13	± 14.5	1500	± 73	± 6	80
Q220-A4-203XE	5A4E	1.4	4×10^6	26	± 14.5	1500	± 73	± 12	170
Q220-A4-303XE	5A4E	2.3	8×10^6	52	± 14.5	1500	± 73	± 24	330
Q220-A4-503XE	5A4E	9.5	10×10^6	260	± 28	750	± 73	± 119	810



-103, -203, and -303 Quick-Mount extension generator performance is based on an active extension length of 1.125". -503 performance is based on 2.25" active length. Quick-Mount performance is based on the force being applied at the outermost tip of the transducer.

PRICE & ORDERING INFORMATION

	PART NO.	1 pc	5	25	100
Std QM Extension Generator, -103 Size	Q220-A4-103XE	\$179	\$99	\$59	\$49
Std QM Extension Generator, -203 Size	Q220-A4-203XE	\$159	\$104	\$64	\$53
Std QM Extension Generator, -303 Size	Q220-A4-303XE	\$179	\$114	\$74	\$62
Std QM Extension Generator, -503 Size	Q220-A4-503XE	\$219	\$154	\$119	\$104