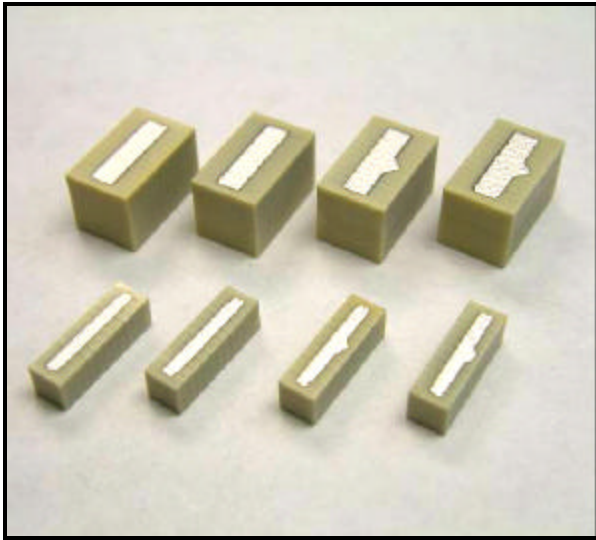




Face International Corporation

427 W. 35th St. • Norfolk, VA 23508 USA • 757.624.2121 • Fax 757.624.2128 • www.faceco.com

Multilayer Piezo Actuator



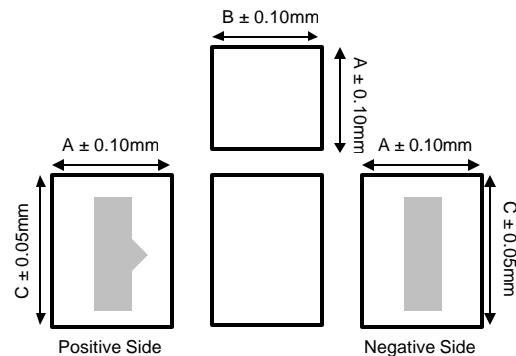
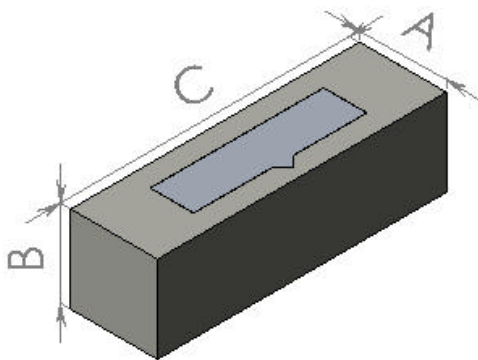
FEATURES

- Minimum out-gassing in vacuum environment. Completely co-fired device without use of resins which may cause out-gassing.
- High-temperature environment operation: Over 100°C.
- High-speed response: Can be driven at several tens of kHz.
- Fine positioning: Controllable in nanometers.
- Low operating voltage: Under 200V.
- Low electromagnetic interference.
- Low energy consumption.
- Available in **customized** designs upon order.

APPLICATIONS

- Static and dynamic positioning, Mirror/Prism Precision Positioning, Fiber optic alignment, Printers, Micro-pumps, Linear Motors, etc.

BASIC DIMENSIONS



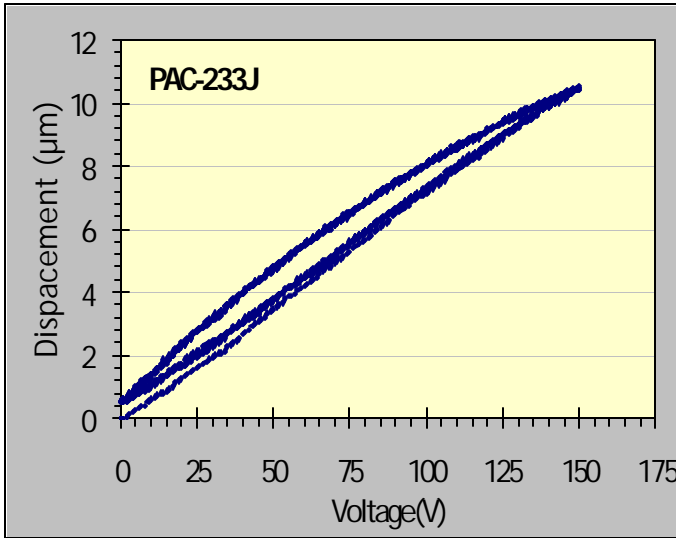
Properties (*)	PAC-233J	PAC-266J
Operating Temperature Range	-20 °C ~ 120 °C	
Max. Operating Voltage (recommended)	200 V (150 V)	
Max. Displacement (recommended)	≥ 12 μm (9 μm)	≥ 14 μm (11 μm)
Displacement Hysteresis	≤ 15 %	
Unloaded Resonance Frequency	≥ 100 kHz	
Max. Force Generation (recommended)	≥ 160 N (120 N)	≥ 1200 N (900 N)
Capacitance @ 1 kHz	0.21 μF ± 20%	1.2 μF ± 20%
Dielectric Loss (tanδ) @ 1 kHz	≤ 3.0 %	
Insulation Resistance	≥ 100 MΩ	
Dimension (A x B x C)	3 mm x 3 mm x 10 mm	6 mm x 6 mm x 10 mm
Mass (g)	0.7 g	2.8 g

(*) Above specifications measured at room temperature

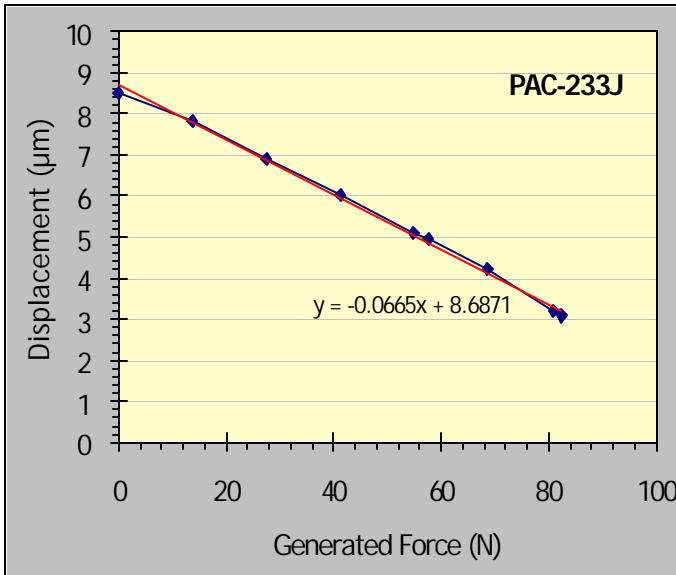


PAC-233J Performance Curves

Voltage vs. Displacement

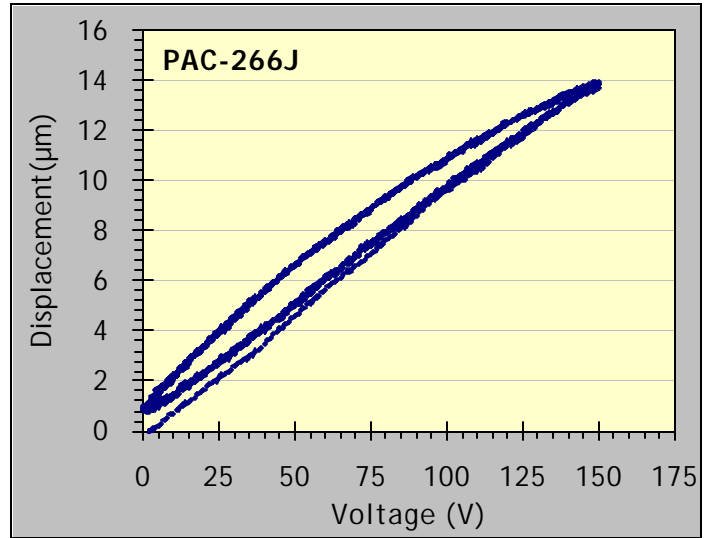


Force Generated vs. Displacement



PAC-266J Performance Curves

Voltage vs. Displacement



Force Generated vs. Displacement

