

SensorsX

SX-PFXADS02 Series

Piezoelectric Polymer Film Sensor Element

Pressure & Vibration Sensing Element (PVDF)



28 µm PVDF Film Thickness	0.2 mm ±10% Total Thickness	0.5 nF ±15% Capacitance
17 x 10 mm Sensor Size	23.5 x 13.5 mm Total Size	Piezo Polymer (PVDF) Sensing Material

Contact Force Sensing | Impact Counting | Event Timing | Vibration Detection | Custom Sensor Integration

■ PRODUCT OVERVIEW

The SX-PFXADS02 Series consists of thin, flexible PVDF piezoelectric film sensor elements with screen-printed silver-ink electrodes. Designed for dynamic strain, vibration, impact, and contact-force sensing, the elements provide high voltage sensitivity and are supplied without attached leads for flexible integration. Multiple sizes and thicknesses are available, with custom configurations available on request.



■ KEY FEATURES

◆ Thin piezoelectric polymer film with high piezoelectric activity	◆ Flexible silver ink metallization
◆ Piezoelectric film sensor without lead attachments	◆ Silver ink electrode
◆ Custom sizes and thicknesses available on request	◆ Suitable for custom sensor integration and prototyping

■ TYPICAL APPLICATIONS

- Sensing contact forces
- Recording the time of an event
- Counting the number of impacts
- Custom sensor development

■ PERFORMANCE SPECIFICATIONS

Material & Construction	
Sensing Material	Piezo polymer film (PVDF)
PVDF Film Thickness	28 µm (1.10 mil)
Electrode	Silver ink screen-printed electrode

■ ELECTRICAL SPECIFICATIONS

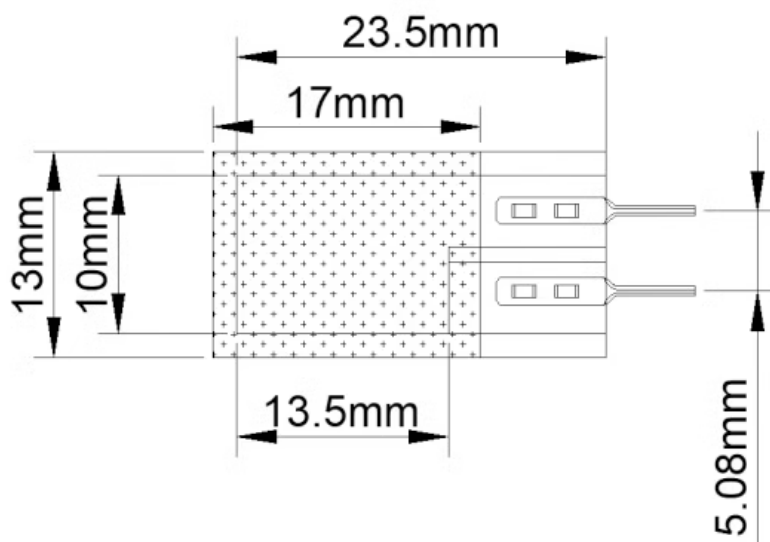
Capacitance	0.5 nF $\pm 15\%$
Minimum Input Impedance	1 M Ω (10 M Ω recommended)
Output Voltage	Millivolts to hundreds of volts, depending on application and strain

■ ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 to 60 °C (-40 to 140 °F)
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■ MECHANICAL DIMENSIONS

SX-PFXADS02 — Dimensional Drawing



Dimensional Data

Total Thickness	0.2 mm $\pm 10\%$ (0.008 in $\pm 10\%$)
Sensor Length	17 mm (0.669 in)

Sensor Width	10 mm (0.394 in)
Total Length	23.5 mm (0.925 in)
Total Width	13.5 mm (0.531 in)
Overall Length (drawing)	23.5 mm (0.925 in)
Active Width (drawing)	13.5 mm (0.531 in)
Pin Pitch	5.08 mm (0.200 in)