

# PIEZO FILM LAB PRE-AMPLIFIER



MEAS

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Sensors > Piezo Film Sensors

The Piezo film lab amplifier is a versatile pre-amplifier for use with piezoelectric sensors.



Piezo Film Sensor Type: **Electronic Interface Product**

**The electric signal from the piezo film is generated within the electrodes of a capacitor.**

It is important to arrange an input that controls the rate of charge leakage appropriately for the application. Simply connecting a piezo film element to the input of an oscilloscope will usually create a high-pass filter that removes any low frequency content of the original piezo signal, and this can lead to disappointment or incorrect evaluation of the material's true potential. This has led to the development of a new low-cost piezo film lab amp, specifically aimed at developers and engineers exploring the material. Both first-time users and seasoned professionals will benefit from the wide range of sensitivity adjustment in either voltage or charge modes, and the functionality of the high- and low-pass filters.

## BENEFITS

- Charge or Voltage Mode Operation
- BNC Input and Output
- 0.01 to 1000 mV/pC Sensitivity Range in Charge Mode
- 1M to 1G Input Resistance, -40 to 40dB Gain in Voltage Mode
- Multi-Pole, Low-Pass and High-Pass Filtering with -3dB Frequencies Ranging from 0.1Hz to 100kHz
- Internal Battery (2 x 9V) or external 24VDC Power Supply Operation

## Features

### Product Type Features

|                        |                              |
|------------------------|------------------------------|
| Piezo Film Sensor Type | Electronic Interface Product |
|------------------------|------------------------------|

### Reference Number

|                    |             |
|--------------------|-------------|
| TE Internal Number | CAT-PFS0015 |
|--------------------|-------------|

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Products (1 of 1)



**AMPLIFIER&EU POWER SUPPLY PLUG**



**LAB AMPLIFIER W/O POWER CORD**



**AMPLIFIER&US POWER SUPPLY PLUG**

|                              |                   |                             |                   |
|------------------------------|-------------------|-----------------------------|-------------------|
| TE Part #                    | 1007214-1         | 11029785-00                 | 1007214-3         |
| EU RoHS Directive 2011/65/EU | EU RoHS Compliant | EU RoHS Compliant           | EU RoHS Compliant |
| EU ELV Directive 2000/53/EC  | EU ELV Compliant  | Not Yet Reviewed for EU ELV | EU ELV Compliant  |
| Product Families             | MEAS              | MEAS                        | MEAS              |

**\*EU RoHS Directive 2011/65/EU**

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

**\*\*EU ELV Directive 2000/53/EC**

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.



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