

Force Sensing Resistor Data Sheet (FSR).

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A Force Sensing Resistor is a variable resistor in which resistance decreased when pressure is applied.

The device is made of a circuitry layer, printed with a conductive ink and a force sensing layer. The two layers are separated by a spacer.

Force sensing can be used as a simple potentiometer or a pressure sensor. It can be incorporated in a touchpad, a slider or a force measuring device. More complex applications include musical instrument or automotive seat detector.

General specifications

Durability: 10,000,000 cycles

Max current input : 5mA

Operating voltage: 1 - 5 Vdc

Resistance not activated : > 20Mohms

Resistance activated: can be customized

Environmental temperature range: -25°C to 70°C (ASTM1596 level 2)

Typical thickness: 0.5mm

Special features

Ultra thin: 0.4 ~ 0.5mm

- Easily customizable to various sizes and shapes
- Cost effective
- Able to customize to a wide range of actuation force 50g ~ 1kg
- Robust, up to 10 million actuations

Applications

- Musical instruments
- Game controllers
- Medical device controls
- Force measuring devices
- Detection devices(presence or position)

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