

Acoustic Emission Sensor



GENERAL DESCRIPTION

The Acoustic Emission Sensor is a low profile, capacitive micromachined acceleration sensor. The micromechanical transducer element features an inherent filtering technique to reduce low and high frequency disturbances, without external electrical filters. The sensor readout is realized on a PCB. The typical application is Acoustic Emission sensing.

SPECIFICATION

FREQUENCY RESPONSE

Mechanical amplification: 10 Bandwidth: 20 kHz Mid-band frequency: 90 kHz

TIME DOMAIN RESPONSE

Settling Time (5%): ≈100µs

SENSOR AND READOUT

Sensitivity: Interface: Power Supply: l6 mV/G (@ mid-band frequency) analog ±5V, SMB ±12V (1,5W)

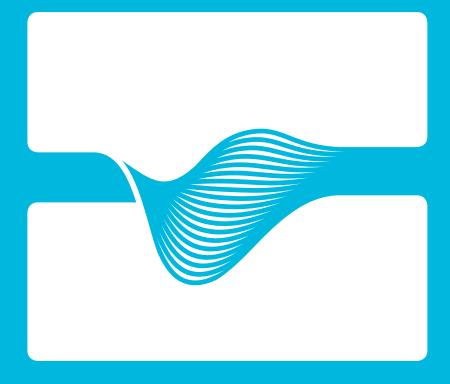
DIMENSIONS

MEMS Device: PCB: 5 mm x 5 mm x 1 mm 52 mm x 35 mm x 16 mm









FIBER CHECK