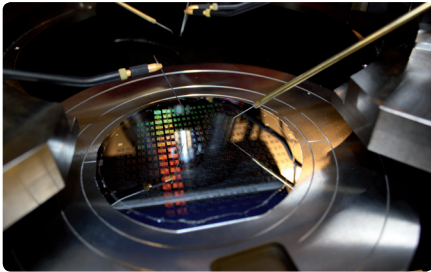


FIBERCHECK

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

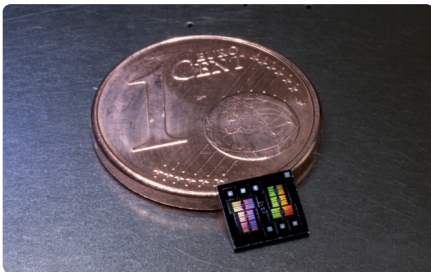
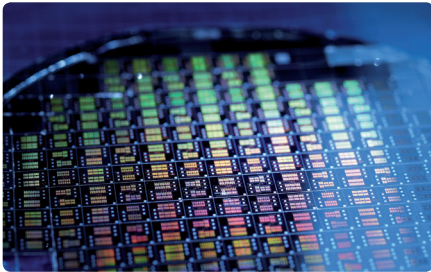
Settling Time (5%): $\approx 100 \mu\text{s}$

SENSOR AND READOUT

Sensitivity: 16 mV/G (@ mid-band frequency)
Interface: analog $\pm 5\text{V}$, SMB
Power Supply: $\pm 12\text{V}$ (1,5 W)

DIMENSIONS

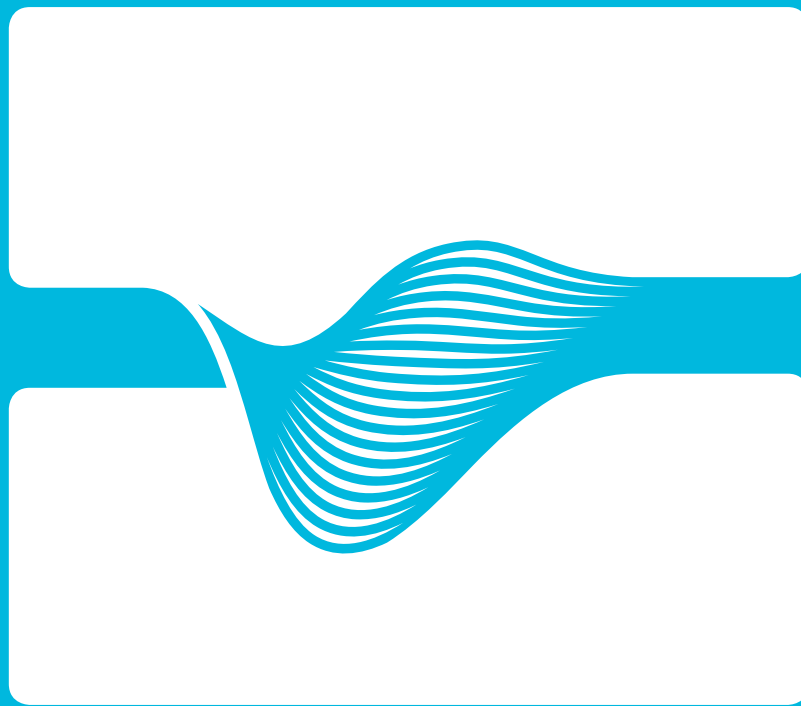
MEMS Device: 5 mm x 5 mm x 1 mm
PCB: 52 mm x 35 mm x 16 mm



DITTESSTRASSE 15 | 09126 CHEMNITZ

FON: +49 (0)371/ 531 199 02 | FAX: +49 (0)371/ 531 837 413

INFO@FIBERCHECK.DE | WWW.FIBERCHECK.DE



FIBERCHECK