



Calibration chart for Accelerometers

Type: KS903.10

Serial number: 17059

Reference sensitivity at: 80 Hz
and: 22,4 °C

Voltage sensitivities*:

X-axis: 1,0345 mV/(m/s²) | 10,145 mV/g **

Y-axis: 1,0497 mV/(m/s²) | 10,294 mV/g **

Z-axis: 1,0831 mV/(m/s²) | 10,622 mV/g **

Transverse sensitivities (at 40 Hz):

X: 0,5 % Y: 3,2 % Z: 4,5 %

Output bias voltage (at 4 mA):

X: 13,0 V Y: 12,9 V Z: 13,6 V

The lower cut-off frequency is 0,15 Hz.

Warranty

We guarantee 24 months (date of delivery receipt) of proper function, provided it was used according to the instruction manual.

Date: Signature

19.07.2017

* The calibration is traceable to the PTB.

** 1 g = 9,807 m/s²

Operating temperature T_{min}/T_{max}: -30 / 100 °C
Destruction limit $\hat{a}+/\hat{a}-$: 70000 m/s²
Temperature coefficient TK(B_{ua}): 0,01 %/K
Polarity: Polarity is positive on the output pin of the connector for an acceleration directed from the mounting surface into the body of the accelerometer.

Environmental characteristics

Temperature transients baT: 2 (m/s²)/K

Base strain baS: --/--

Magnetic field baB: 15 (m/s²)/T

Electric noise (20 - 50000 Hz): < 4 mg

Physical parameters

Material: Aluminium, hard coated

Weight (without cable): 6,2 g

Electrical connector: 1/4-28 UNF male

Mounting: M5 (Y,Z), adhesive

Piezo design: Shear system

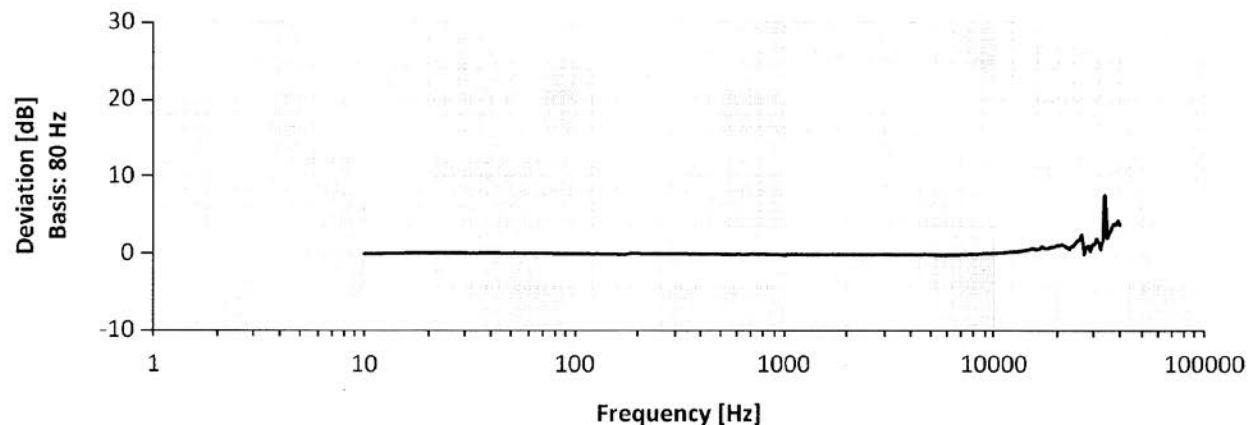
Additional data: TEDS

Current source: The current for the internal charge converter amount 2 .. 20 mA at a supply voltage of 24 - 30V.

MSCDB-ID:



Frequency sweep Z-axis



For resonant frequency see this attached individual frequency response curve.



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