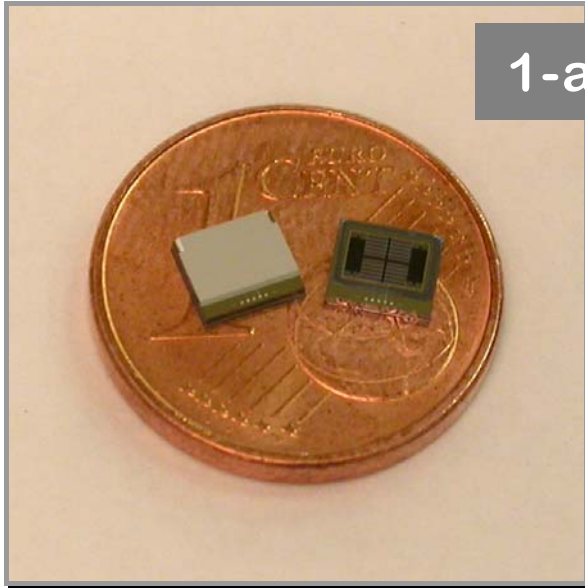


AIM9

1-axis Acceleration sensor



Features and benefits

- Single crystal silicon based
- 1-axis acceleration measurement
- Ultra low cross axis sensitivity due to HARMs technology
- Over damped frequency response
- Low noise
- Excellent reliability against overload

PERFORMANCE DATA (capacitive sensor element)

Parameter ¹⁾	Conditions	Min.	Typ. ²⁾	Max.	Units
Measurement range			± 0.5		g
Sensitivity	full scale	1500	1600	1700	fF/g
Sensitivity ³⁾ temperature error			---		%/K
Zero-g Offset ³⁾ temperature error			---		fF/K
Capacitance C ₀		4300	4450	4650	fF
Total Capacitance	Parasitic Capacitance		18.5		pF
Cross axis sensitivity	x/y- versus z-direction		700:1		
Nonlinearity ³⁾			---		%
Frequency response -3 dB		120	130	140	Hz
Recommended max. measuring voltage	RMS		1.1		V
Noise density	Calculated	2.9	3.1	3.3	µg/√Hz
Shock survival	Bare chip	2000			g
Dimensions	L x W x H		4.20 x 3.70 x 0.73		mm

1) Unless stated otherwise the performance data are for room temperature.

2) Typical specifications are not guaranteed.

3) Characterization in progress