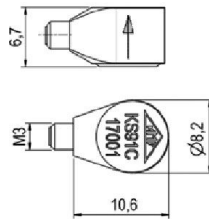


Miniature Accelerometer

KS91C

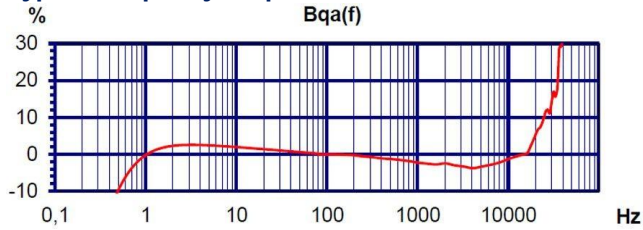
Properties

- Miniature transducer for light test objects
- Wide dynamic range
- High resonant frequency
- Low temperature coefficient
- Replaceable cable
- Insulated base avoiding ground loops

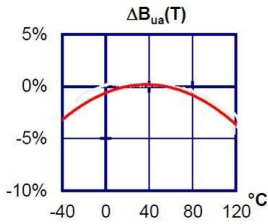


Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	10	mV/g
Sensitivity tolerance	20	%
Measurement range, pos./neg.	600	g
Destruction limit	10000	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	0,3	Hz
Upper frequency limit (3 dB)	37000	Hz
Lower frequency limit (10 %)	0,6	Hz
Upper frequency limit (10 %)	23000	Hz
Lower frequency limit (5 %)	0,9	Hz
Upper frequency limit (5 %)	20000	Hz
Resonant frequency	>60	kHz
Resonance amplitude	25	dB
Constant current supply	2 - 20	mA
Bias voltage at 4 mA	12 - 14	V
Output impedance	<100	Ω
Residual noise; wide band; RMS	<3000 (0,5 - 20000 Hz)	μ g
Noise density 1 Hz	500	μ g/ \sqrt Hz
Noise density 10 Hz	100	μ g/ \sqrt Hz
Noise density 100 Hz	20	μ g/ \sqrt Hz
Noise density 1000 Hz	8	μ g/ \sqrt Hz
Operating temperature range	-40 - 120	$^{\circ}$ C
Temperature coefficient of voltage sensitivity	0,05 (-20 $^{\circ}$ C)	%/K
	0 (20 $^{\circ}$ C)	%/K
	-0,02 (80 $^{\circ}$ C)	%/K
	-0,04 (>80 $^{\circ}$ C)	%/K
Temperature transient sensitivity	2,5	m/s ² /K
Magnetic field sensitivity	4,5	m/s ² /T
Weight without cable	1.3	g
Case material	Aluminum; hard coated	
Connector direction	radial	
Connector	Subminiature M3	
Mounting	Adhesive	
Isolated mounting	yes	

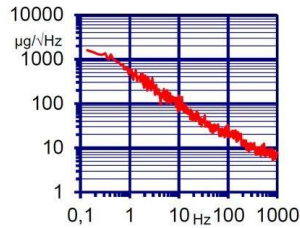
Typical Frequency Response



Temperature Coefficient



Noise Characteristics



Connection Accessories

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; D2,1
- 009-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 120 °C; D2,1
- 009/T-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 200 °C; D2,1
- 016: Coupler UNF 10-32 (female) to UNF 10-32 (female)
- 017: Plug adapter UNF10-32 (female) to BNC (male)
- 117: Plug adapter UNF10-32 (female) to BNC (female)
- 025: Plug adapter UNF10-32 (female) to TNC (male)

Mounting Accessories

- 002: Bees wax for temporary sensor attachment
- 038: Instant adhesive
- 039: Removal tool for KS91C

Delivery version with accessories kit KS91C/01

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; D2,1
- 002: Bees wax for temporary sensor attachment
- 038: Instant adhesive
- 039: Removal tool for KS91C

Notice: The standard delivery includes an individual data sheet.
This is a non-accredited measurement/calibration and consequently not covered by EA MLA.
On request, we offer a DIN EN ISO/IEC 17025:2018 accredited calibration of the measurand acceleration in the measuring range 0.1 m/s² to 200 m/s².

