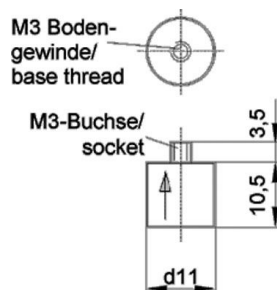


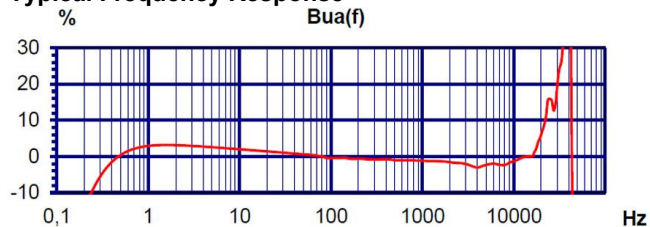
## Properties

- Miniature transducer for light test objects
- Wide dynamic range
- High resonant frequency
- Two sensitivity versions (10 and 100 mV/g)
- Good resolution, also at low frequencies
- M3 base thread

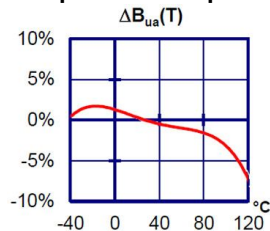


| Piezo design                                   | Shear design             |        |
|------------------------------------------------|--------------------------|--------|
| Output                                         | IEPE                     |        |
| Voltage sensitivity                            | 10                       | mV/g   |
| Sensitivity tolerance                          | 5                        | %      |
| Measurement range, pos./neg.                   | 600                      | g      |
| Destruction limit                              | 8000                     | g      |
| Transverse sensitivity                         | <5                       | %      |
| Lower frequency limit (3 dB)                   | 0,15                     | Hz     |
| Upper frequency limit (3 dB)                   | 35000                    | Hz     |
| Lower frequency limit (10 %)                   | 0,25                     | Hz     |
| Upper frequency limit (10 %)                   | 22000                    | Hz     |
| Lower frequency limit (5 %)                    | 0,35                     | Hz     |
| Upper frequency limit (5 %)                    | 19000                    | Hz     |
| Resonant frequency                             | >70                      | kHz    |
| Resonance amplitude                            | 25                       | dB     |
| Constant current supply                        | 2 - 20                   | mA     |
| Bias voltage at 4 mA                           | 12 - 14                  | V      |
| Output impedance                               | <150                     | Ω      |
| Residual noise; wide band; RMS                 | <3000 (0,5 - 20000 Hz)   |        |
| Noise density 1 Hz                             | 750                      | µg/√Hz |
| Noise density 10 Hz                            | 150                      | µg/√Hz |
| Noise density 100 Hz                           | 40                       | µg/√Hz |
| Noise density 1000 Hz                          | 10                       | µg/√Hz |
| Operating temperature range                    | -40 - 120                | °C     |
| Temperature coefficient of voltage sensitivity | -0,03 (-20 °C)           | %/K    |
|                                                | -0,04 (20 °C)            | %/K    |
|                                                | -0,03 (80 °C)            | %/K    |
|                                                | -0,08 (120 °C)           | %/K    |
| Temperature transient sensitivity              | 1,2                      | m/s²/K |
| Magnetic field sensitivity                     | 4,5                      | m/s²/T |
| Weight without cable                           | 2.4                      | g      |
| Case material                                  | Aluminum/stainless steel |        |
| Connector direction                            | axial                    |        |
| Connector                                      | Subminiature M3          |        |
| Mounting                                       | M3                       |        |

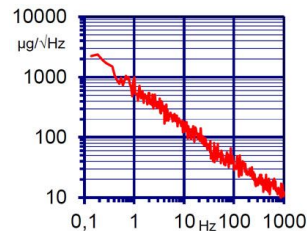
## Typical Frequency Response



## Temperature Response



## Noise Characteristics



## Connection Accessories

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 009-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 120 °C; Ø2,1
- 009/T-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 200 °C; Ø2,1
- 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

- 002W: Synthetic adhesive wax for temporary sensor attachment
- 021: Mounting stud; M3 x 6
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 022: Thread adapter; M3 female to M5 x 5 male
- 108: Rare earth magnetic base; M3; Ø10; 120 °C
- 130: Triaxial mounting cube; M3; □12
- 140: Adapter for strap attachment on curved surfaces; M3

## Delivery version with accessories kit KS94C10/01

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 021: Mounting stud; M3 x 6
- 002W: Synthetic adhesive wax for temporary sensor attachment
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 108: Rare earth magnetic base; M3; Ø10; 120 °C

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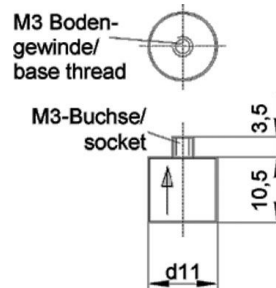
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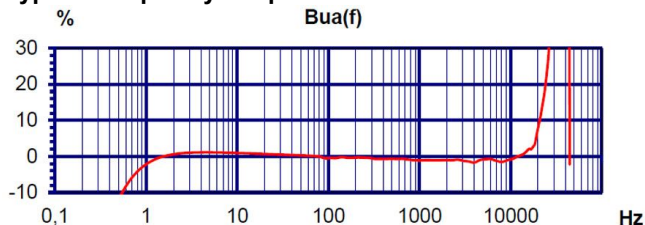
## Properties

- Miniature transducer for light test objects
- Wide dynamic range
- High resonant frequency
- Two sensitivity versions (10 and 100 mV/g)
- Good resolution, also at low frequencies
- M3 base thread

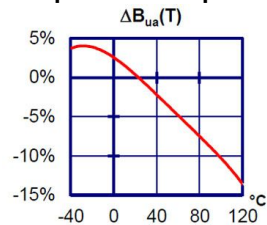


|                                                |                          |        |
|------------------------------------------------|--------------------------|--------|
| Piezo design                                   | Shear design             |        |
| Output                                         | IEPE                     |        |
| Voltage sensitivity                            | 100                      | mV/g   |
| Sensitivity tolerance                          | 5                        | %      |
| Measurement range, pos./neg.                   | 60                       | g      |
| Destruction limit                              | 8000                     | g      |
| Transverse sensitivity                         | <5                       | %      |
| Lower frequency limit (3 dB)                   | 0,3                      | Hz     |
| Upper frequency limit (3 dB)                   | 28000                    | Hz     |
| Lower frequency limit (10 %)                   | 0,6                      | Hz     |
| Upper frequency limit (10 %)                   | 20000                    | Hz     |
| Lower frequency limit (5 %)                    | 1                        | Hz     |
| Upper frequency limit (5 %)                    | 18000                    | Hz     |
| Resonant frequency                             | >40                      | 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                 | <400 (0,5 - 20000 Hz)    | μg     |
| Noise density 1 Hz                             | 100                      | μg/√Hz |
| Noise density 10 Hz                            | 15                       | μg/√Hz |
| Noise density 100 Hz                           | 4                        | μg/√Hz |
| Noise density 1000 Hz                          | 1                        | μg/√Hz |
| Operating temperature range                    | -40 - 120                | °C     |
| Temperature coefficient of voltage sensitivity | -0,08 (-20 °C)           | %/K    |
|                                                | -0,12 (20 °C)            | %/K    |
|                                                | -0,13 (80 °C)            | %/K    |
|                                                | -0,14 (>80 °C)           | %/K    |
| Temperature transient sensitivity              | 0,3                      | m/s²/K |
| Magnetic field sensitivity                     | 1,7                      | m/s²/T |
| Weight without cable                           | 3.2                      | g      |
| Case material                                  | Aluminum/stainless steel |        |
| Connector direction                            | axial                    |        |
| Connector                                      | Subminiature M3          |        |
| Mounting                                       | M3                       |        |

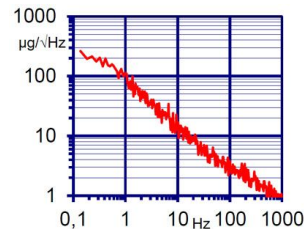
## Typical Frequency Response



## Temperature Response



## Noise Characteristics



## Connection Accessories

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 009-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 120 °C; Ø2,1
- 009/T-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 200 °C; Ø2,1
- 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

- 002W: Synthetic adhesive wax for temporary sensor attachment
- 021: Mounting stud; M3 x 6
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 022: Thread adapter; M3 female to M5 x 5 male
- 108: Rare earth magnetic base; M3; Ø10; 120 °C
- 130: Triaxial mounting cube; M3; □12
- 140: Adapter for strap attachment on curved surfaces; M3

## Delivery version with accessories kit KS94C100/01

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 021: Mounting stud; M3 x 6
- 002W: Synthetic adhesive wax for temporary sensor attachment
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 108: Rare earth magnetic base; M3; Ø10; 120 °C

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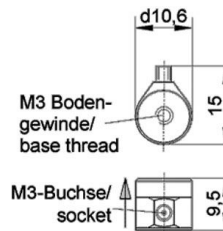
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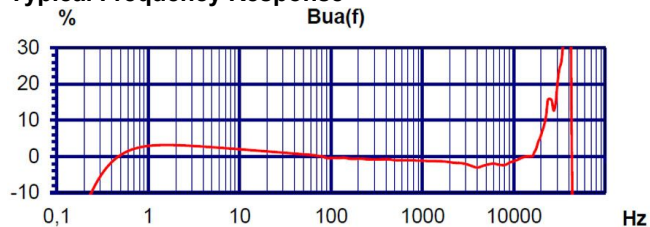
## Properties

- Miniature transducer for light test objects
- Wide dynamic range
- High resonant frequency
- Two sensitivity versions (10 and 100 mV/g)
- Good resolution, also at low frequencies
- M3 base thread

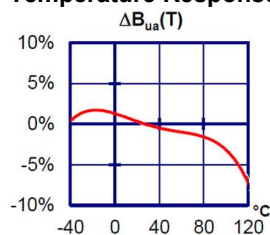


|                                                |                          |        |
|------------------------------------------------|--------------------------|--------|
| Piezo design                                   | Shear design             |        |
| Output                                         | IEPE                     |        |
| Voltage sensitivity                            | 10                       | mV/g   |
| Sensitivity tolerance                          | 5                        | %      |
| Measurement range, pos./neg.                   | 600                      | g      |
| Destruction limit                              | 8000                     | g      |
| Transverse sensitivity                         | <5                       | %      |
| Lower frequency limit (3 dB)                   | 0,15                     | Hz     |
| Upper frequency limit (3 dB)                   | 35000                    | Hz     |
| Lower frequency limit (10 %)                   | 0,25                     | Hz     |
| Upper frequency limit (10 %)                   | 22000                    | Hz     |
| Lower frequency limit (5 %)                    | 0,35                     | Hz     |
| Upper frequency limit (5 %)                    | 19000                    | Hz     |
| Resonant frequency                             | >70                      | kHz    |
| Resonance amplitude                            | 25                       | dB     |
| Constant current supply                        | 2 - 20                   | mA     |
| Bias voltage at 4 mA                           | 12 - 14                  | V      |
| Output impedance                               | <150                     | Ω      |
| Residual noise; wide band; RMS                 | <3000 (0,5 - 20000 Hz)   | μg     |
| Noise density 1 Hz                             | 750                      | μg/√Hz |
| Noise density 10 Hz                            | 150                      | μg/√Hz |
| Noise density 100 Hz                           | 40                       | μg/√Hz |
| Noise density 1000 Hz                          | 10                       | μg/√Hz |
| Operating temperature range                    | -40 - 120                | °C     |
| Temperature coefficient of voltage sensitivity | -0,03 (-20 °C)           | %/K    |
|                                                | -0,04 (20 °C)            | %/K    |
|                                                | -0,03 (80 °C)            | %/K    |
|                                                | -0,08 (120 °C)           | %/K    |
| Temperature transient sensitivity              | 1,2                      | m/s²/K |
| Magnetic field sensitivity                     | 4,5                      | m/s²/T |
| Weight without cable                           | 2.4                      | g      |
| Case material                                  | Aluminum/stainless steel |        |
| Connector direction                            | radial                   |        |
| Connector                                      | Subminiature M3          |        |
| Mounting                                       | M3                       |        |

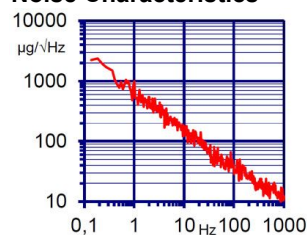
## Typical Frequency Response



## Temperature Response



## Noise Characteristics



## Connection Accessories

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 009-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 120 °C; Ø2,1
- 009/T-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 200 °C; Ø2,1
- 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

- 002W: Synthetic adhesive wax for temporary sensor attachment
- 021: Mounting stud; M3 x 6
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 022: Thread adapter; M3 female to M5 x 5 male
- 108: Rare earth magnetic base; M3; Ø10; 120 °C
- 130: Triaxial mounting cube; M3; □12
- 140: Adapter for strap attachment on curved surfaces; M3

## Delivery version with accessories kit KS95C10/01

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 021: Mounting stud; M3 x 6
- 002W: Synthetic adhesive wax for temporary sensor attachment
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 108: Rare earth magnetic base; M3; Ø10; 120 °C

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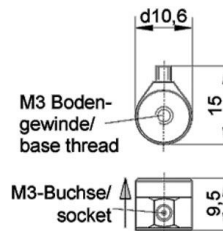
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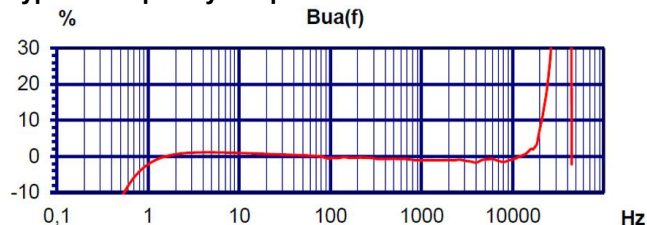
## Properties

- Miniature transducer for light test objects
- Wide dynamic range
- High resonant frequency
- Two sensitivity versions (10 and 100 mV/g)
- Good resolution, also at low frequencies
- M3 base thread

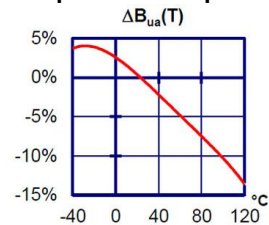


|                                                |                          |        |
|------------------------------------------------|--------------------------|--------|
| Piezo design                                   | Shear design             |        |
| Output                                         | IEPE                     |        |
| Voltage sensitivity                            | 100                      | mV/g   |
| Sensitivity tolerance                          | 5                        | %      |
| Measurement range, pos./neg.                   | 60                       | g      |
| Destruction limit                              | 8000                     | g      |
| Transverse sensitivity                         | <5                       | %      |
| Lower frequency limit (3 dB)                   | 0,3                      | Hz     |
| Upper frequency limit (3 dB)                   | 28000                    | Hz     |
| Lower frequency limit (10 %)                   | 0,6                      | Hz     |
| Upper frequency limit (10 %)                   | 20000                    | Hz     |
| Lower frequency limit (5 %)                    | 1                        | Hz     |
| Upper frequency limit (5 %)                    | 18000                    | Hz     |
| Resonant frequency                             | >40                      | 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                 | <400 (0,5 - 20000 Hz)    | μg     |
| Noise density 1 Hz                             | 100                      | μg/√Hz |
| Noise density 10 Hz                            | 15                       | μg/√Hz |
| Noise density 100 Hz                           | 4                        | μg/√Hz |
| Noise density 1000 Hz                          | 1                        | μg/√Hz |
| Operating temperature range                    | -40 - 120                | °C     |
| Temperature coefficient of voltage sensitivity | -0,08 (-20 °C)           | %/K    |
|                                                | -0,12 (20 °C)            | %/K    |
|                                                | -0,13 (80 °C)            | %/K    |
|                                                | -0,14 (>80 °C)           | %/K    |
| Temperature transient sensitivity              | 0,3                      | m/s²/K |
| Magnetic field sensitivity                     | 1,7                      | m/s²/T |
| Weight without cable                           | 3.2                      | g      |
| Case material                                  | Aluminum/stainless steel |        |
| Connector direction                            | radial                   |        |
| Connector                                      | Subminiature M3          |        |
| Mounting                                       | M3                       |        |

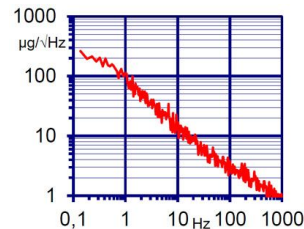
## Typical Frequency Response



## Temperature Response



## Noise Characteristics



## Connection Accessories

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 009-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 120 °C; Ø2,1
- 009/T-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 200 °C; Ø2,1
- 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

- 002W: Synthetic adhesive wax for temporary sensor attachment
- 021: Mounting stud; M3 x 6
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 022: Thread adapter; M3 female to M5 x 5 male
- 108: Rare earth magnetic base; M3; Ø10; 120 °C
- 130: Triaxial mounting cube; M3; □12
- 140: Adapter for strap attachment on curved surfaces; M3

## Delivery version with accessories kit KS95C100/01

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 021: Mounting stud; M3 x 6
- 002W: Synthetic adhesive wax for temporary sensor attachment
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 108: Rare earth magnetic base; M3; Ø10; 120 °C

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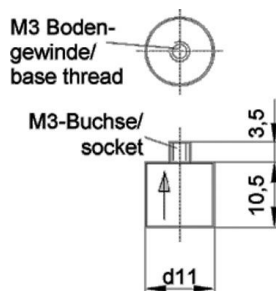
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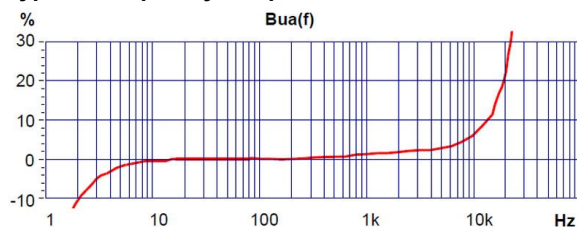
## Properties

- Miniature transducer for light test objects
- High resonant frequency
- Low-power IEPE output for power-saving operation
- M3 base thread

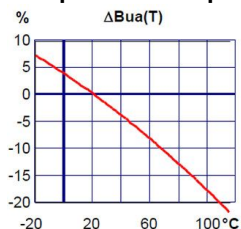


|                                                |                          |        |
|------------------------------------------------|--------------------------|--------|
| Piezo design                                   | Shear design             |        |
| Output                                         | Low-power IEPE           |        |
| Voltage sensitivity                            | 14                       | mV/g   |
| Sensitivity tolerance                          | 20                       | %      |
| Measurement range, pos./neg.                   | 240                      | g      |
| Destruction limit                              | 8000                     | g      |
| Transverse sensitivity                         | <5                       | %      |
| Lower frequency limit (3 dB)                   | 0,3                      | Hz     |
| Upper frequency limit (3 dB)                   | 22000                    | Hz     |
| Lower frequency limit (10 %)                   | 0,7                      | Hz     |
| Upper frequency limit (10 %)                   | 12000                    | Hz     |
| Lower frequency limit (5 %)                    | 0,9                      | Hz     |
| Upper frequency limit (5 %)                    | 8000                     | Hz     |
| Resonant frequency                             | >40                      | kHz    |
| Resonance amplitude                            | 25                       | dB     |
| Constant current supply                        | 0,1 - 4                  | mA     |
| Bias voltage at 4 mA                           | 4 - 6                    | V      |
| Output impedance                               | <1200                    | Ω      |
| Residual noise; wide band; RMS                 | <1000 (0,5 - 20000 Hz)   | μg     |
| Operating temperature range                    | -20 - 90                 | °C     |
| Temperature coefficient of voltage sensitivity | -0,17                    | %/K    |
| Temperature transient sensitivity              | 3                        | m/s²/K |
| Magnetic field sensitivity                     | 2                        | m/s²/T |
| Weight without cable                           | 3.5                      | g      |
| Case material                                  | Aluminum/stainless steel |        |
| Connector direction                            | axial                    |        |
| Connector                                      | Subminiature M3          |        |
| Mounting                                       | M3                       |        |

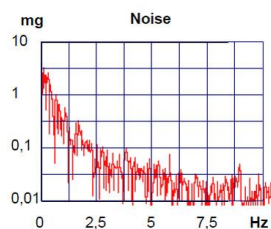
## Typical Frequency Response



## Temperature Response



## Noise Characteristics



## Connection Accessories

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 009-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 120 °C; Ø2,1
- 009/T-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 200 °C; Ø2,1
- 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

- 002W: Synthetic adhesive wax for temporary sensor attachment
- 021: Mounting stud; M3 x 6
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 022: Thread adapter; M3 female to M5 x 5 male
- 108: Rare earth magnetic base; M3; Ø10; 120 °C
- 130: Triaxial mounting cube; M3; □12
- 140: Adapter for strap attachment on curved surfaces; M3

## Delivery version with accessories kit KS94L/01

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; Ø2,1
- 021: Mounting stud; M3 x 6
- 002W: Synthetic adhesive wax for temporary sensor attachment
- 106: Insulating flange; 2 x M3; Ø12; 110 °C
- 129: Adhesive pad insulating; flange M3; Ø12; 110 °C
- 108: Rare earth magnetic base; M3; Ø10; 120 °C

## 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/s<sup>2</sup> to 200 m/s<sup>2</sup>.



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