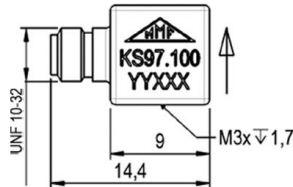


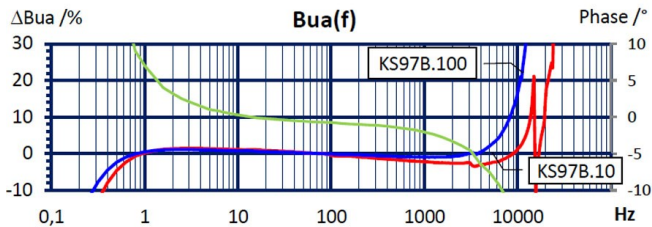
## Properties

- Well suited for modal and structural analysis
- Wide dynamic range
- Low amplitude and phase error
- Easy mounting by cubic case with M3 thread
- Sensitive axis transverse to connector
- Two sensitivity versions (10 and 100 mV/g)
- Includes electronic data sheet (TEDS; IEEE 1451.4; Template 25 w. DS2431)

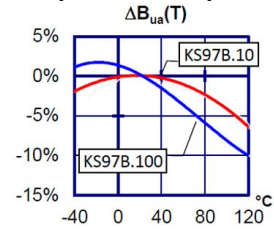


|  |                          |                     |
|--|--------------------------|---------------------|
| Piezo design                                   | Shear design             |                     |
| Output   | IEPE                     |                     |
| Voltage sensitivity                            | 10                       | mV/g                |
| Sensitivity tolerance                          | 20                       | %                   |
| Measurement range, pos./neg.                   | 500                      | g                   |
| Destruction limit                              | 8000                     | g                   |
| Transverse sensitivity                         | <5                       | %                   |
| Lower frequency limit (3 dB)                   | 0,2                      | Hz                  |
| Upper frequency limit (3 dB)                   | 18000                    | Hz                  |
| Lower frequency limit (10 %)                   | 0,4                      | Hz                  |
| Upper frequency limit (10 %)                   | 12000                    | Hz                  |
| Lower frequency limit (5 %)                    | 0,6                      | Hz                  |
| Upper frequency limit (5 %)                    | 10500                    | Hz                  |
| Resonant frequency                             | >40                      | kHz                 |
| Resonance amplitude                            | 25                       | dB                  |
| Constant current supply                        | 2 - 20                   | mA                  |
| Bias voltage at 4 mA                           | 11 – 14,5                | V                   |
| Output impedance                               | <100                     | Ω                   |
| Residual noise; wide band; RMS                 | <3000 (0,5 - 20000 Hz)   | μg                  |
| Noise density 1 Hz                             | 400                      | μg/√Hz              |
| Noise density 10 Hz                            | 100                      | μg/√Hz              |
| Noise density 100 Hz                           | 30                       | μg/√Hz              |
| Noise density 1000 Hz                          | 15                       | μg/√Hz              |
| Operating temperature range                    | -40 - 120                | °C                  |
| Temperature coefficient of voltage sensitivity | 0,03 (<0 °C)             | %/K                 |
|  | 0 (0 - 40 °C)            | %/K                 |
|  | -0,03 (40 - 80 °C)       | %/K                 |
|  | -0,06 (>80 °C)           | %/K                 |
| Temperature transient sensitivity              | 1,5                      | m/s <sup>2</sup> /K |
| Magnetic field sensitivity                     | 4,5                      | m/s <sup>2</sup> /T |
| Weight without cable                           | 2.4                      | g                   |
| Case material                                  | Aluminum/stainless steel |                     |
| Connector direction                            | radial                   |                     |
| Connector                                      | UNF10-32                 |                     |
| Mounting                                       | M3                       |                     |

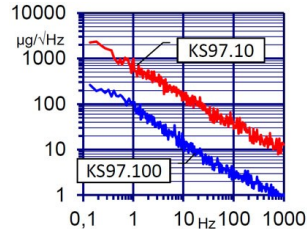
## Typical Frequency Response



## Temperature Response



## Noise Characteristics



## Connection Accessories

- 009-UNF-UNF-1,5: Low-noise cable; 1,5 m; UNF 10-32 to UNF 10-32; 120 °C; Ø2,1
- 009-UNF-BNC-1,5: Low-noise cable; 1,5 m; UNF 10-32 to BNC; 120 °C; Ø2,1
- 010-UNF-BNC-5: Low-noise cable; 5 m; UNF 10-32 to BNC; 120 °C; Ø2,1
- 010-UNF-BNC-10: Low-noise cable; 10 m; UNF 10-32 to BNC; 120 °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

- 021: Mounting stud; M3 x 6
- 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
- 038: Instant adhesive

## Delivery version with accessories kit KS97B10/01

- 009-UNF-BNC-1,5: Low-noise cable; 1,5 m; UNF 10-32 to BNC; 120 °C; Ø2,1
- 021: Mounting stud; M3 x 6
- 002: Bees 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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