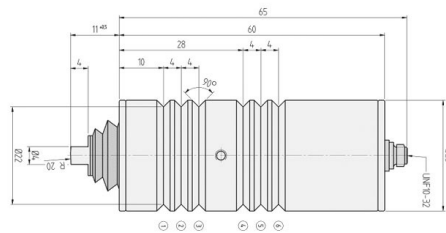


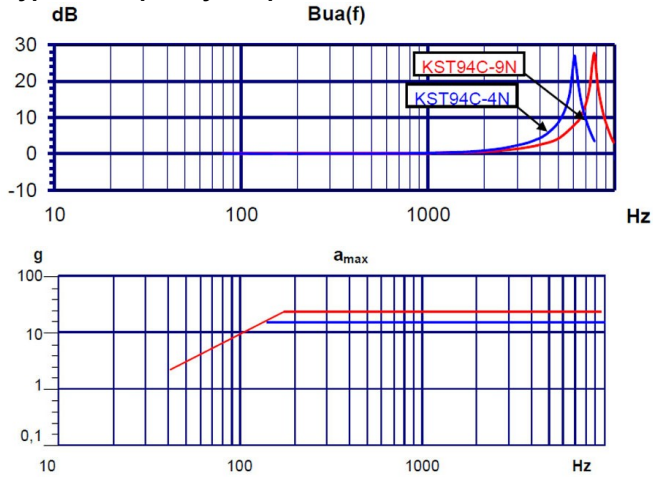
Properties

- Suited for automated vibration measurement, for instance in quality control
- Movable tip guided by air damped piston / cylinder system
- Linear frequency range by frictionless movement of the sensing element
- Constant tip pressure by spring suspension guarantees reproducible measuring results
- Low distortion
- Low sensitivity for environmental vibration
- Long life expectancy: over 10 million test cycles
- IP code IP62, oil resistant
- Probe tip electrically isolated from body



| Piezo design | Shear design | |
|--|--|--------|
| Output | IEPE | |
| Voltage sensitivity | 100 | mV/g |
| Sensitivity tolerance | 5 | % |
| Measurement range, pos./neg. | 40 | g |
| Transverse sensitivity | <5 | % |
| Lower frequency limit (3 dB) | 40 | Hz |
| Upper frequency limit (3 dB) | 4500 | Hz |
| Upper frequency limit (10 %) | 2900 | Hz |
| Upper frequency limit (5 %) | 2200 | Hz |
| Resonant frequency | >7,8 | kHz |
| Resonance amplitude | 20 | dB |
| Constant current supply | 2 - 20 | mA |
| Bias voltage at 4 mA | 12 - 14 | V |
| Output impedance | <150 | Ω |
| Residual noise; wide band; RMS | <400 (0,5 - 20000 Hz) | μg |
| Noise density 10 Hz | 15 | μg/√Hz |
| Noise density 100 Hz | 4 | μg/√Hz |
| Operating temperature range | 0 - 80 | °C |
| Temperature coefficient of voltage sensitivity | -0,1 | %/K |
| Max. stroke | 5,5 | mm |
| Recommended deflection | 2 - 4 | mm |
| Max. vibration displacement | 1 | mm |
| Spring stiffness | 0,63 | N/mm |
| Dynamic mass | 9 | g |
| Weight without cable | 120 | g |
| Case material | Stainless steel | |
| Connector direction | axial | |
| Connector | UNF10-32 | |
| Mounting | Clamp collar Ø 25; M5x8 screw DIN 914 in 90° notch | |
| IP code | IP62 | |

Typical Frequency Response



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
- 017: Plug adapter UNF10-32 (female) to BNC (male)

Notice: We offer the optional adapter KST94CA for the vibration calibrator VC120. It is suited for calibrations between 100 and 10000 Hz with defined coupling conditions and adjustable probe position.



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