# High temperature accelerometer

## HT786A

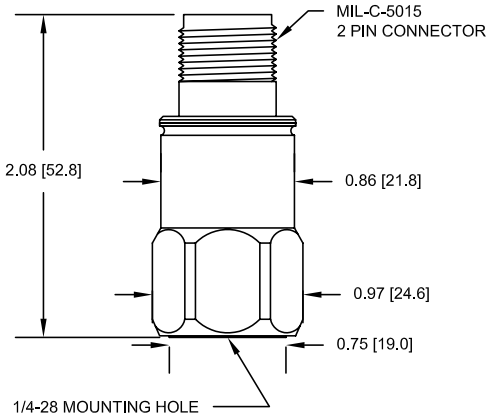

## SPECIFICATIONS

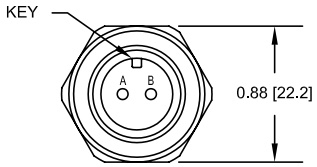
| | | | |
|---|---|---|---|
| **Sensitivity, ±5%, 25°C** | | 100 mV/g | |
| **Acceleration range, VDC > 25 V** | | 80 g peak | |
| **Amplitude nonlinearity** | | 1% | |
| **Frequency response:** | **±5%** | 3 - 5,000 Hz | |
| | **±10%** | 1 - 9,000 Hz | |
| | **±3 dB** | 0.5 - 14,000 Hz | |
| **Resonance frequency, nominal** | | 30 kHz | |
| **Transverse sensitivity, max** | | 5% of axial | |
| **Temperature response:** | **–25°C** | –10% | |
| | **+150°C** | +15% | |
| **Power requirement:** | | | |
| **Voltage source** | | 18 - 30 VDC | |
| **Current regulating diode** | | 2 - 10 mA | |
| **Electrical noise, equiv. g:** | | **25°C** | **150°C** |
| **Broadband** | **2.5 Hz to 25 kHz** | 700 µg | 1,100 µg |
| **Spectral** | **10 Hz** | 10 µg/√Hz | 14 µg/√Hz |
| | **100 Hz** | 5 µg/√Hz | 7 µg/√Hz |
| | **1,000 Hz** | 5 µg/√Hz | 7 µg/√Hz |
| **Output impedance, max** | | 100 Ω | |
| **Bias output voltage:** | **+25°C** | 13 VDC | |
| | **+150°C** | 12 VDC | |
| **Grounding** | | case isolated, internally shielded | |
| **Temperature range**[1] | | –50° to +165°C | |
| **Vibration limit** | | 500 g peak | |
| **Shock limit** | | 5,000 g peak | |
| **Electromagnetic sensitivity, equiv. g, max** | | 70 µg/gauss | |
| **Sealing** | | hermetic | |
| **Base strain sensitivity, max** | | 0.0002 g/µstrain | |
| **Sensing element design** | | PZT, shear | |
| **Weight** | | 90 grams | |
| **Case material** | | 316L stainless steel | |
| **Mounting** | | 1/4-28 UNF tapped hole | |
| **Output connector** | | 2 pin, MIL-C-5015 style | |

**Notes:** [1] Dependent on current supply. BOV, dynamic range and noise may vary.
**Accessories supplied:** SF6 mounting stud (metric mounting available); calibration data (level 2)

### Key features

- Operation in environments up to 165°C
- Built with extended range components for long-lasting operation
- Manufactured in ISO 9001 facility




| Connections | |
|---|---|
| Function | Connector pin |
| power/signal | A |
| common | B |
| ground | shell |

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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