

High temperature accelerometer

HT787A

SPECIFICATIONS

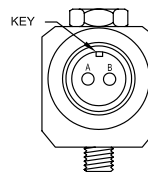
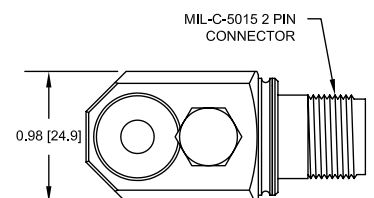
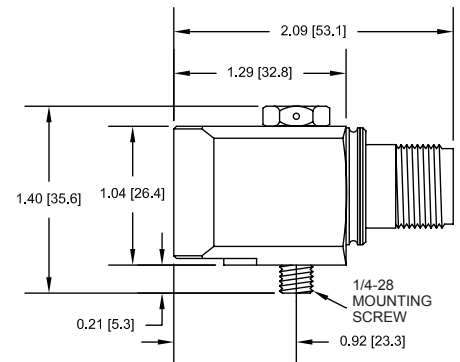
| | | |
|---|------------------|---|
| Sensitivity, $\pm 5\%$, 25°C | | 100 mV/g |
| Acceleration range, VDC > 25 V | | 80 g peak |
| Amplitude nonlinearity | | 1% |
| Frequency response: | $\pm 10\%$ | 1 - 5,000 Hz |
| | ± 3 dB | 0.7 - 10,000 Hz |
| Resonance frequency, nominal | | 22 kHz |
| Transverse 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: | | |
| Broadband | 2.5 Hz to 25 kHz | 25°C: 700 μ g 150°C: 1,100 μ g |
| | 10 Hz | 10 μ g/ $\sqrt{\text{Hz}}$ (25°C) 14 μ g/ $\sqrt{\text{Hz}}$ (150°C) |
| Spectral | 100 Hz | 5 μ g/ $\sqrt{\text{Hz}}$ (25°C) 7 μ g/ $\sqrt{\text{Hz}}$ (150°C) |
| | 1,000 Hz | 5 μ g/ $\sqrt{\text{Hz}}$ (25°C) 7 μ g/ $\sqrt{\text{Hz}}$ (150°C) |
| Output impedance, max | | 100 Ω |
| Bias output voltage: | +25°C | 13 VDC |
| | +150°C | 12 VDC |
| Grounding | | case isolated, internally shielded |
| Temperature range | | -50° to +150°C |
| Vibration limit | | 500 g peak |
| Shock limit | | 5,000 g peak |
| Electromagnetic sensitivity, equiv. g, max | | 70 μ g/gauss |
| Sealing | | hermetic |
| Base strain sensitivity, max | | 0.0002 g/ μ strain |
| Sensing element design | | PZT, shear |
| Weight | | 145 grams |
| Case material | | 316L stainless steel |
| Mounting | | 1/4-28 captive screw |
| Output connector | | 2 pin, MIL-5015 style |
| Recommended cabling | | J9F / J9T2A |

Accessories supplied: 1/4-28 captive screw (metric mounting available); calibration data (level 2)



Key features

- 150°C operation
- 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.