High temperature accelerometer

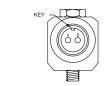


HT787A

SPECIFICATIONS

| Sensitivity, ±5%, 25°C | 100 mV/g |
|---|------------------------------------|
| Acceleration range, VDC > 25 V | 80 g peak |
| Amplitude nonlinearity | 1% |
| Frequency response: ±10% ±3 dB | 1.0 - 5,000 Hz 0.5 - 10,000 Hz |
| Resonance frequency, nominal | 22 kHz |
| Transverse sensitivity, max | 5% of axial |
| Temperature response: -25°C +150°C | –10% +15% |
| Power requirement: Voltage source Current regulating diode | 18 - 30 VDC 2 - 10 mA |
| Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz | 5 μg/√Hz 7 μg/√Hz |
| Output impedance, max | 100 Ω |
| Bias output voltage: +25°C +150°C | 13 VDC 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, ma | ax 70 μg/gauss |
| Sealing | hermetic |
| Base strain sensitivity, max | 0.0002 g/µstrain |
| 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 |

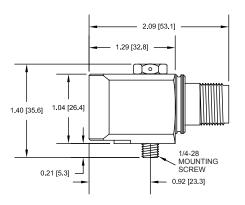
Notes: ¹ Dependent on current supply. BOV, dynamic range and noise may vary. **Accessories supplied:** 1/4-28 captive screw (metric mounting available); calibration data (level 2)

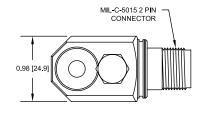




Key features

- 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 | Α |
| common | В |
| ground | shell |
| | |

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

CE

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

 $\frac{\text{Amphenol}}{\frac{\text{HT787A}}{}}$