Compact, ultra low-frequency accelerometer

731-207

SPECIFICATIONS

Sensitivity, ±10%, 25°C 10 V/g
Acceleration range 0.5 g peak
Amplitude nonlinearity 1%

Frequency response, nominal: ±5% 0.6 - 650 Hz
±10% 0.5 - 850 Hz
±3 dB 0.2 - 1,300 Hz

Resonance frequency, mounted, nominal 2.4 kHz
Transverse sensitivity, max 1% of axial
Temperature response: 0°C –14%
+80°C +14%

Power requirement:
Voltage source 18 - 30 VDC
Current regulating diode 2 - 10 mA

Electrical noise, equiv. g, nominal:
Broadband 2.5 Hz to 25 kHz 2 µg
Spectral 2 Hz 0.28 µg/√Hz
10 Hz 0.09 µg/√Hz
100 Hz 0.03 µg/√Hz

Output impedance, max 500 Ω
Bias output voltage, nominal 10 VDC
Grounding case grounded
Temperature range 0° to +80°C
Vibration limit 50 g peak
Shock limit 250 g peak
Electromagnetic sensitivity at 60 Hz 20 µg/gauss
Sealing hermetic
Base strain sensitivity 0.0005 g/µstrain
Weight 60 grams
Case material 316L stainless steel
Mounting 10-32 UNF
Output connector 10-32 coaxial
Recommended cabling J93

Accessories supplied: SF1 mounting stud; calibration data (level 3)

Key features

- Ultra high sensitivity
- Ultra low noise
- Compact construction
- Ideal for seismic applications
- Manufactured in ISO 9001 facility

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