

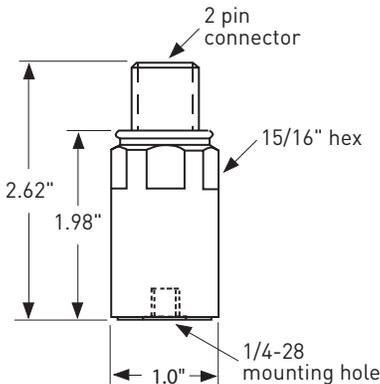


Wilcoxon Research FireFET® model 793-6 High temperature accelerometer



Features

- High temperature operation
- Rugged design
- Corrosion resistant
- Hermetically sealed
- Ground isolated
- ESD protection
- Reverse wiring protection
- 150° C operation



Dynamic

| | |
|----------------------------------|---------------|
| Sensitivity, ± 10%, 25°C..... | 100 mV/g |
| Acceleration range | 50 g peak |
| Amplitude nonlinearity..... | 1% |
| Frequency response: | |
| ± 5%..... | 4 - 5,000 Hz |
| ± 10%..... | 3 - 7,000 Hz |
| ± 3dB | 1 - 12,000 Hz |
| Resonance frequency..... | 20 kHz |
| Transverse sensitivity, max..... | 5% of axial |
| Temperature response: | |
| -50° C..... | -5% |
| +0° C..... | +2% |
| +150° C..... | -5% |

Electrical

| | | |
|---------------------------------------|---------------------------------------|--------------|
| Power requirement: | | |
| Voltage source | 18 - 30 VDC | |
| Current regulating diode | 2 - 4 mA | |
| Electrical noise, equiv. g, (µg/√Hz): | | |
| Broadband 2.5 Hz to 25 kHz..... | 0.3 mg | |
| Spectral | | 25° C 150° C |
| 10 Hz | 10 | 30 |
| 100 Hz | 3 | 10 |
| 1,000 Hz | 2 | 6 |
| Output impedance, max..... | 100 Ω | |
| Bias output voltage: | | |
| 25° C..... | 12 VDC | |
| 150° C..... | 11 VDC | |
| Grounding..... | case isolated, internally shielded | |

Environmental

| | |
|--|------------------|
| Temperature range (mounting surface) | -50 to 150° C |
| Vibration limit..... | 500 g peak |
| Shock limit | 2,500 g peak |
| Electromagnetic sensitivity, equiv. g..... | 15 µg/gauss |
| Sealing..... | hermetic |
| Base strain sensitivity..... | 0.0005 g/µstrain |

Physical

| | |
|-----------------------------|-------------------------|
| Sensing element design..... | PZT, compression |
| Weight..... | 135 g |
| Case material..... | 316L stainless steel |
| Mounting | 1/4-28 tapped hole |
| Output connector | 2 pin, MIL-C-5015 style |
| Mating connector | R6 type |
| Recommended cabling | J9T2A |

Connections

| Function | Connector pin | Cable conductor |
|---------------|---------------|-----------------|
| ground | shell | shield |
| power/ signal | A | white |
| common | B | black |

Accessories supplied: SF6 mounting stud [international customers specify mounting requirements]; calibration data [level3].

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