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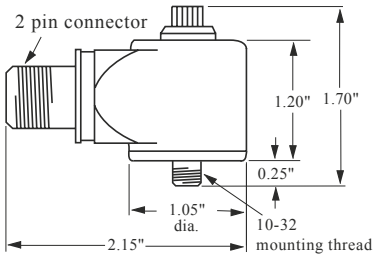
ALTHERIS SENSORS & CONTROLS

FireFET® Model 797-6
High temperature, low profile, general purpose accelerometer

Features
- Rugged design
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection
- Mounts in any orientation
- 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
±3 dB			1.0 - 11,000 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		2-4mA
Electrical noise, equiv. g, (µg/√Hz):			
Broadband	2.5 Hz to 25 kHz		0.3 mg
		25°C	150°C
Spectral at	10 Hz	10	30
	100 Hz	3	10
	1,000 Hz	2	6
Output impedance, max.			100 Ω
Bias output voltage:			
at 25°C			12 VDC
at 150°C			11 VDC
Grounding			case isolated, internally shielded

Environmental

Temperature range	–50 to 150°C
Vibration limit	500 g peak
Shock limit	2,500 g peak
Electromagnetic sensitivity, equiv. g	5 µg/gauss
Sealing	hermetic
Base strain sensitivity	0.001 g/µstrain

Physical

Sensing element design	PZT ceramic / shear
Weight	145 grams
Case material	316L stainless steel
Mounting	1/4-28 captive socket head screw
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J9T2A

Accessories supplied: #12105-01 captive screw (International customers specify mounting requirements); calibration data (level 3).

Connections

Connector pin	Function	Cable conductor color
Shell	ground	shield
A	power/ signal	white
B	common	black