

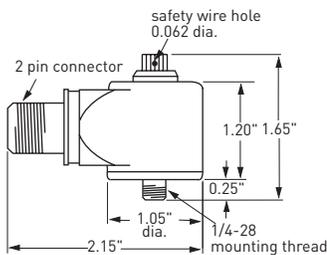


## Wilcoxon Research FireFET® 797-6 High temperature, low profile, general purpose accelerometer



### 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 - 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 - 4 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz .....	0.3 mg
Spectral at (µg/√Hz):	
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 .....	-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 / shear
Weight.....	145 g
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

### Connections

Connector pin	Function
Shell	ground
A	power/ signal
B	common

Accessories supplied: 1/4-28 captive screw (international customers specify mounting requirements); calibration data (level 3).

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