

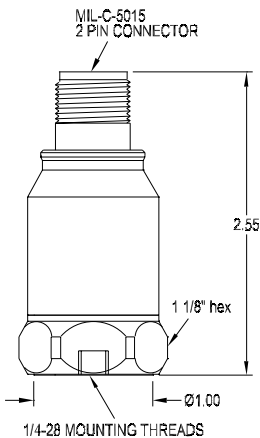


Wilcoxon Research model 799M Premium, high sensitivity, filtered accelerometer



Features

- High sensitivity
- Ultra low-noise electronics for clear signals at very low vibration levels
- Optimized for 15V supply
- Low pass filtered to eliminate high frequencies
- Hermetic seal
- ESD protection
- Reverse wiring protection



Dynamic

Sensitivity, ± 5%, 25° C.....	1,000 mV/g
Acceleration range	5 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
-5%	0.6 - 1,200 Hz
-10%.....	0.4 - 1,600 Hz
-3 dB	0.2 - 2,500 Hz
Resonance frequency.....	18 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response.....	
-50° C.....	-7%
+80° C.....	+5%

Electrical

Power requirement:	
Voltage source	15 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Spectral	
0.10 Hz.....	15 µg/VHz
1 Hz.....	3 µg/VHz
10 Hz.....	1 µg/VHz
100 Hz.....	1 µg/VHz
Output impedance, max.....	400 Ω
Bias output voltage	8.0 VDC
Grounding.....	case isolated, internally shielded

Environmental

Temperature range	-50 to 80° C
Vibration limit.....	250 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g.....	150 µg/gauss
Sealing.....	hermetic
Base strain sensitivity.....	0.0005 g/µstrain

Physical

Sensing element design.....	PZT, shear
Weight.....	205 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
ground	shell
power / signal	A
common	B

Accessories supplied: SF6 mounting stud (international customers specify mounting requirements); calibration data (level 3)

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