



Wilcoxon Research model 797R Premium, PiezoFET®, low profile IsoRing accelerometer, radiation resistant



Features

- Rugged design
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Miswiring protection
- Mounting in any orientation

Dynamic

Sensitivity, ± 5%, 25° C.....	100 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
± 5%.....	3 - 5,000 Hz
± 10%.....	2 - 7,000 Hz
± 3 dB	1 - 12,000 Hz
Resonance frequency.....	26 kHz
Transverse sensitivity, max.....	5 % of axial
Temperature response:	
-50° C.....	-5%
+120° C.....	+5%

Electrical

Power requirement:	
Voltage source.....	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz.....	600 µg
Spectral 10 Hz.....	8 µg/VHz
100 Hz.....	5 µg/VHz
1000 Hz.....	5 µg/VHz
Output impedance, max.....	100 Ω
Bias output voltage	12 VDC
Grounding.....	case isolated, internally shielded

Environmental

Temperature range	-50 to 120° C
Vibration limit.....	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g.....	30 µg/gauss
Sealing.....	hermetic
Base strain sensitivity.....	0.002 g/µstrain
Radiation exposure limit	1x10 ⁷ RADs

Physical

Sensing element design.....	PZT, shear
Weight.....	135 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	J9T2

Connections

Function	Connector pin
power / signal	A
common	B

Accessories supplied: #12105-01 captive socket head (metric studs available upon request);
calibration data (level 3)

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