

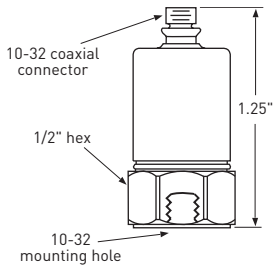


Wilcoxon Research model 732A/732AT High frequency accelerometer

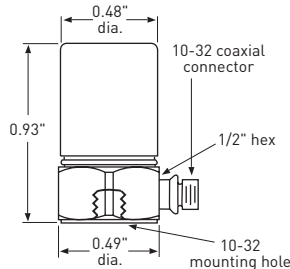


Features

- Wide dynamic range
- Compact construction to fit in tight spaces
- Wide frequency range



Model 732AT



Model 732A

Dynamic

Sensitivity, $\pm 5\%$, 25°C	10 mV/g
Acceleration range	500 g peak
Amplitude nonlinearity	1%
Frequency response	
$\pm 5\%$	2.0 - 15,000 Hz
± 3 dB	0.5 - 25,000 Hz
Resonance frequency	60 kHz
Transverse sensitivity, max.	7% of axial
Temperature response:	
-50°C	-10%
+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	200 μ g
Spectral 10 Hz	20 μ g/√Hz
100 Hz	3 μ g/√Hz
1,000 Hz	2 μ g/√Hz
10,000 Hz	2 μ g/√Hz
Output impedance, max.	100 Ω
Bias output voltage	10 VDC
Grounding	case grounded

Environmental

Temperature range	-50°C to 120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g	100 μ g/gauss
Base strain sensitivity	0.005 g/ μ strain

Physical

Sensing element design	PZT ceramic / compression
Weight	13 grams
Material	316L stainless steel
Mounting	10-32 tapped hole
Output connector	10-32 coaxial
Mating connector	R1
Recommended cabling	J93

Connector Pin	Function	Cable conductor
Shell	common	shield
Pin	power / signal	center

Accessories supplied: SF1 mounting stud (International customers specify mounting requirements); calibration data [level 3].

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