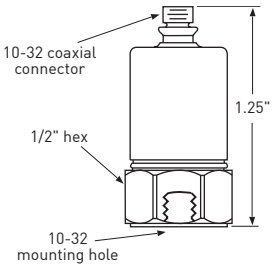
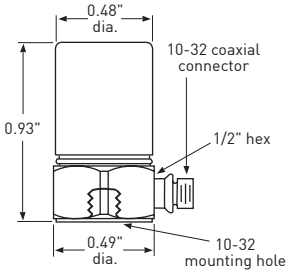
Wilcoxon Research

Model 736/736T
Compact, high sensitivity, high frequency accelerometer

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



Model 736T



Model 736

Dynamic

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	50 g peak
Amplitude nonlinearity	1%
Frequency response:	
±5%	5.0 - 15,000 Hz
±3 dB	2.0 - 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	150 µg
Spectral 10 Hz	10 µg/√Hz
100 Hz	2 µg/√Hz
1,000 Hz	1 µg/√Hz
10,000 Hz	0.8 µg/√Hz
Output impedance, max	150 Ω
Bias output voltage	10 VDC
Grounding	case grounded

Environmental

Temperature range	–50 to 120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagneticsensitivity, equiv. g	100 µg/gauss
Base strain sensitivity	0.005 g/µstrain

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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