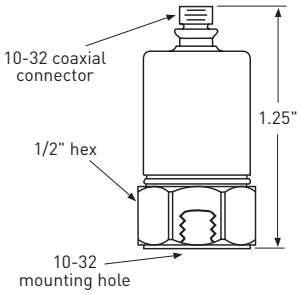
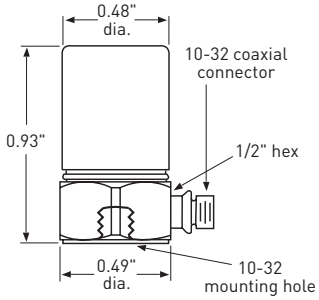
Wilcoxon Research models 736/736T Compact, high sensitivity, high frequency accelerometer

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 - 15,000 Hz
± 3 dB	2 - 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 / compression
Weight	13 g
Material	316L stainless steel
Mounting	10-32 tapped hole
Output connector	10-32 coaxial
Mating connector	R1
Recommended cabling	J93

Connections

Function	Connector pin	Cable conductor
power / signal	pin	center
common	shell	shield

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

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smart engineering for extreme environments

Due to continued research and product development, Meggitt Sensing Systems reserves the right to amend this specification without notice.
This document is cleared for public release.

98093 Rev.D.4 2/12