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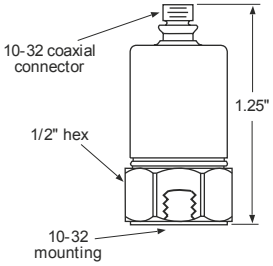
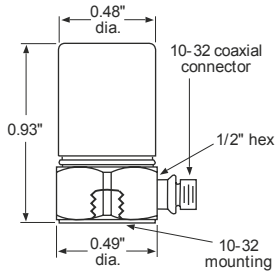
ALTHERIS
SENSORS & CONTROLS

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, ±5%, 25°C		10 mV/g
Acceleration range		500 g peak
Amplitude nonlinearity		1%
Frequency response		
±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 µg
Spectral	10 Hz	20 µg/√Hz
	100 Hz	3 µg/√Hz
	1,000 Hz	2 µg/√Hz
	10,000 Hz	2 µg/√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 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).