Model ST-632A-10
High frequency accelerometer

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

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

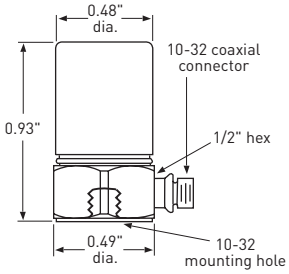
Power requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	200 µg
Spectral	10 Hz	20 µg/√Hz
	100 Hz	3 µg/√Hz
	1,000 Hz	2 µg/√Hz
	10,000 Hz	2 µg/√Hz
Output impedance, max.		100 Ω
Bias output voltage		10 VDC
Grounding		case 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
Mating connector	10-32 microdot
Recommended cabling	coaxial RG316/U



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

Accessories supplied: 10-32 to 10-32 mounting stud; calibration data.

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Due to continued research and product development, the manufacturer reserves the right to amend this specification without notice.