

Model 754 Miniature underwater accelerometer

Dynamic

Sensitivity, ± 1.5 dB, 25°C	10 mV/g
Acceleration range ¹	250 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
± 1 dB	10 - 15,000 Hz
± 3 dB	2 - 25,000 Hz
Resonance frequency, mounted, nominal.....	60 kHz
Transverse sensitivity, max.....	10% of axial
Temperature response	see graph

Electrical

Power requirement: voltage source.....	18-30 VDC
current regulating diode ¹	2-5 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz.....	300 μ g
Spectral	
10 Hz.....	50 μ g/ \sqrt Hz
100 Hz	4.0 μ g/ \sqrt Hz
1,000 Hz	1.5 μ g/ \sqrt Hz
10,000 Hz	1.0 μ g/ \sqrt Hz
Output impedance, max	200 Ω
Bias output voltage, nominal.....	8, ± 1.5 VDC
Grounding.....	case isolated, internally shielded

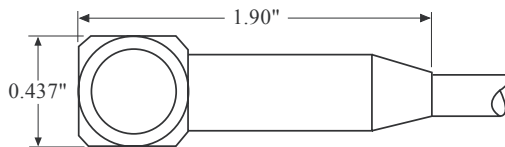
Environmental

Hydrostatic pressure, max.....	650 psi
Temperature range	-20 to 90°C
Vibration limit.....	500 g peak
Shock limit	5000 g peak
Base strain sensitivity	0.01 g/ μ strain

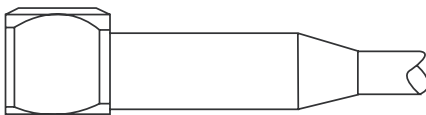
Physical

Dynamic weight	4 grams
Case material	titanium
Mounting	adhesive
Integral cabling	J6, 10 ft, coaxial polyurethane jacket, 30 pF/ft

Notes: ¹ To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables (please consult Wilcoxon customer service).



Top view



Side view

