



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 µg
Spectral	
10 Hz.....	50 µg/√Hz
100 Hz.....	4.0 µg/√Hz
1,000 Hz.....	1.5 µg/√Hz
10,000 Hz.....	1.0 µg/√Hz
Output impedance, max.....	200 Ω
Bias output voltage, nominal.....	8, ±1.5 VDC
Grounding	case isolated, internally shielded

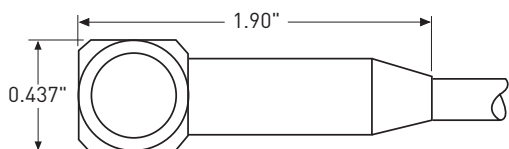
Environmental

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/µstrain

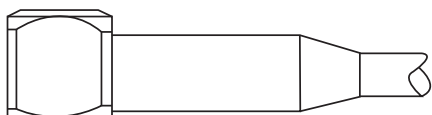
Physical

Dynamic weight	4 grams
Case material	titanium
Mounting	adhesive
Integral cabling.....	J6, 10 ft

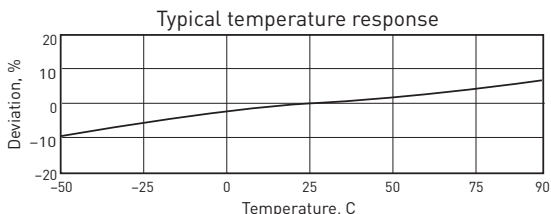
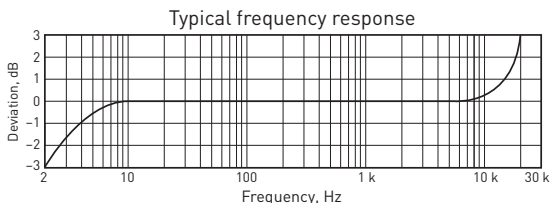
Notes: ¹ To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables (please consult Wilcoxon customer service).



Top view



Side view



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