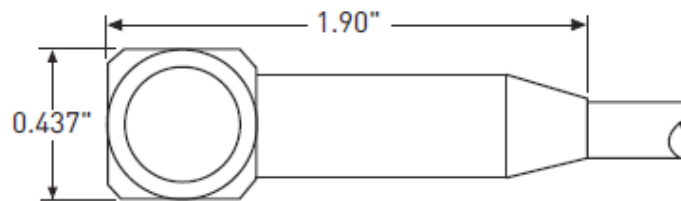


Miniature underwater accelerometer 754

Key features

- General purpose underwater accelerometer
- Compact size
- High pressure rating

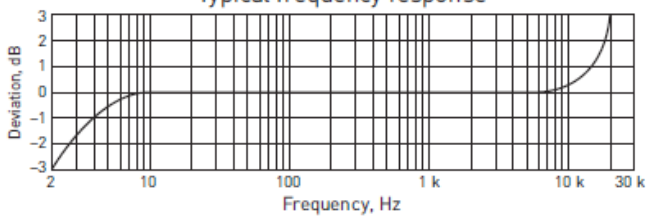


Top view

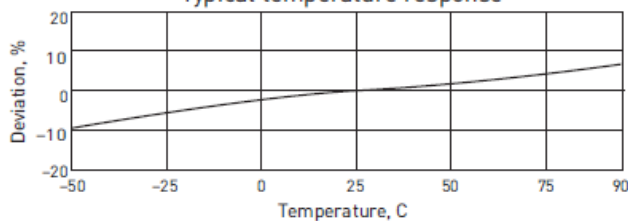


Side view

Typical frequency response



Typical temperature response



Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.

Wilcoxon Sensing Technologies
20511 Seneca Meadows Parkway
Germantown, MD 20876
info@wilcoxon.com

Tel: (301) 330 8811
Fax: (301) 330 8873
www.wilcoxon.com

Wilcoxon Sensing Technologies
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Miniature underwater accelerometer 754

SPECIFICATIONS

Sensitivity, ± 1.5 dB, 25° C	10 mV/g
Acceleration range¹	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 on page 1
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode¹	2 - 5 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	300 μ g
Spectral	
10 Hz	50 μ g/ $\sqrt{\text{Hz}}$
100 Hz	4.0 μ g/ $\sqrt{\text{Hz}}$
1,000 Hz	1.5 μ g/ $\sqrt{\text{Hz}}$
10,000 Hz	1.0 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	200 Ω
Bias output voltage, nominal	8, ± 1.5 VDC
Grounding	case isolated, internally shielded
Hydrostatic pressure, max	650 psi
Temperature range	-20 to +90° C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Base strain sensitivity	0.01 g/ μ strain
Dynamic weight	4 grams
Case material	titanium
Mounting	adhesive
Integral cabling	J6, 10 ft.

Note: 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).

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Contact

Wilcoxon Sensing
Technologies

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Germantown MD 20876, USA

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