

M8Q

A wide-band omni-directional hydrophone designed for marine observation. It comes with a preamplified output of 0 to 35 dB (selectable on order) with current or voltage signalling.



| Electrical Characteristics | |
|---|--|
| Voltage Sensitivity (w/o pre-amp) With pre-amp | -200.0 ± 1.5 dBV re 1 μPa @ 20°C -165.0 ± 1.5 dBV re 1 μPa @ 20°C |
| Capacitance | 1.4 nF ±20% @ 20°C |
| Mechanical Characteristics | |
| Size | 5.8" Long x 0.5" OD |
| Operating Depth | 3500m |
| Survival Depth | > 1500 m |
| Electrical connector | SubConn MCOM8-M |
| Storage and Operating Temperatures | -40 to +70°C |
| Acceleration Sensitivity | <1.5 mbar/g, in air, any axis |
| Lowest Resonance Frequency | 170 kHz |
| Labelling | Calibration parameters, serial number, date |
| Stability | |
| Electrical Insulation Between Leads | >1 GQ @ 20°C and 50% humidity |
| Variation of Sensitivity | <0.3 dBV 1Hz to 2kHz <0.1 dBV over depth range |
| UV and Isopar Resistance | Excellent |



GeoSpectrum Technologies Inc.

Customizing Detection

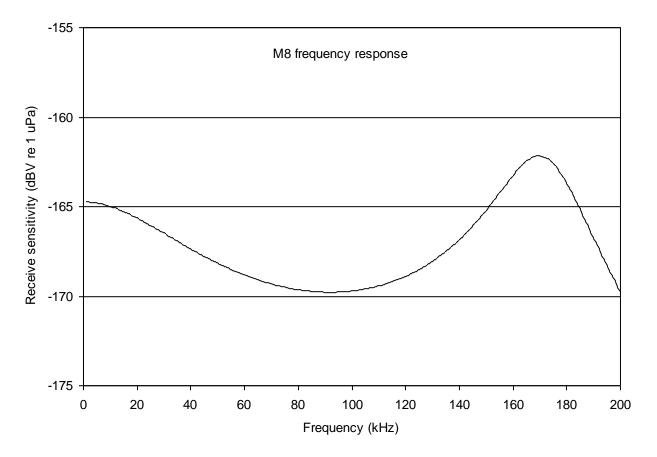


Figure 1 M8E Frequency Response

Voltage Pre-amp:

- Input voltage 6.8VDC nominal, 4.5V to 30V operational
- Gain = 35 dB Nominal, unless otherwise specified.
- Band pass: 5 Hz HPF, no LPF installed
- IRN: <30nV/√Hz @10 Hz, <6nV/√Hz @1 kHz
- Current draw 1.3 mA typical at 6.8 VDC, 4.2mA typical in current signalling mode