ONDA

Putting Confidence in Ultrasound

HM Hydrophones

The HM Series membrane hydrophones are designed for measuring pulsed ultrasound fields. Their extremely flat sensitivity results in the best reproduction of acoustic waveforms. Version A is the traditional hydrophone configuration, and a more rugged version B prevents membrane vibration during scanning motion. Version A is recommended for high power ultrasound work, where the absorption of energy by the backing could result in damage to the hydrophone. Both types are excellent choices as in-house primary or secondary standard, and for general purpose field mapping.

HM Hydrophone

Features

- Rugged
- High Sensitivity
- Broadband
- Sealed design
- Integral preamplifier
- Choice of aperture sizes

Models

- HMA — free membrane
- HMB — backed membrane

Technical Specifications

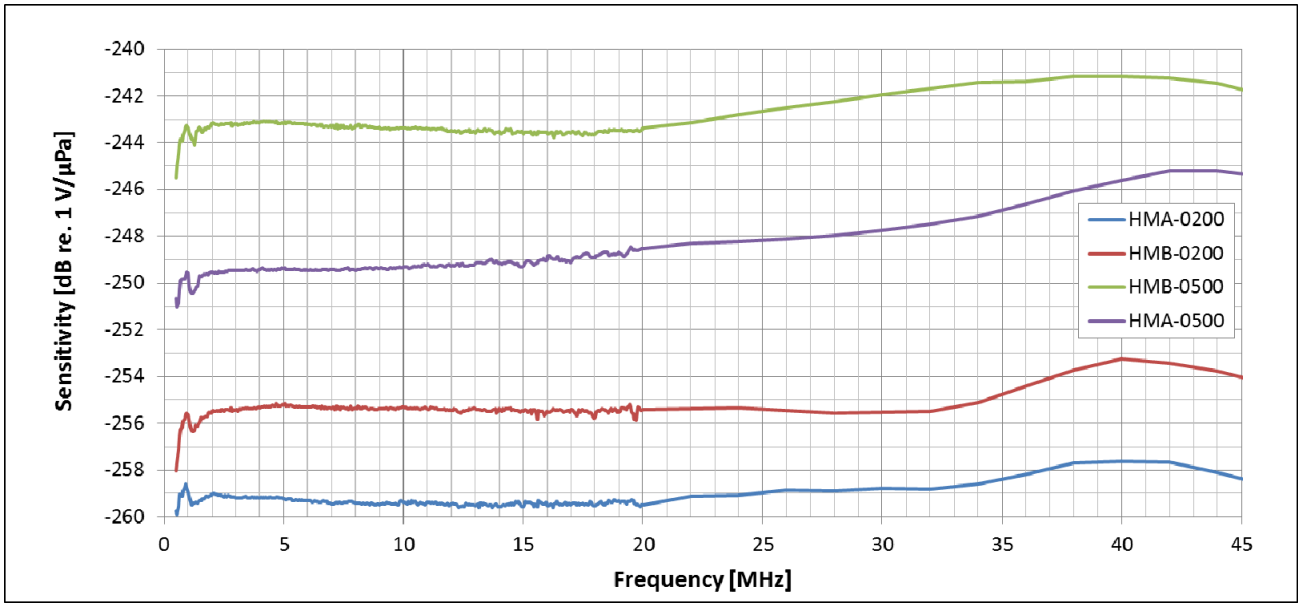
	HMA-0200	HMA-0500	HMB-0200	HMB-0500
Frequency range (±3dB)	0.5 to 45 MHz			
Nominal Sensitivity [dB re 1V/µPa] *	-260	-248	-256	-244
Nominal Sensitivity [nV/Pa]	100	398	158	631
Max Pressure (p-p) within Linearity Range of Integral Preamp (MPa) **	53	12	25	7
Output Impedance	50 Ω			
Max. Operating Temperature	40 °C			

* Provided with traceable calibration 1-20 MHz at 50 KHz intervals. For other calibrations available visit our web site.

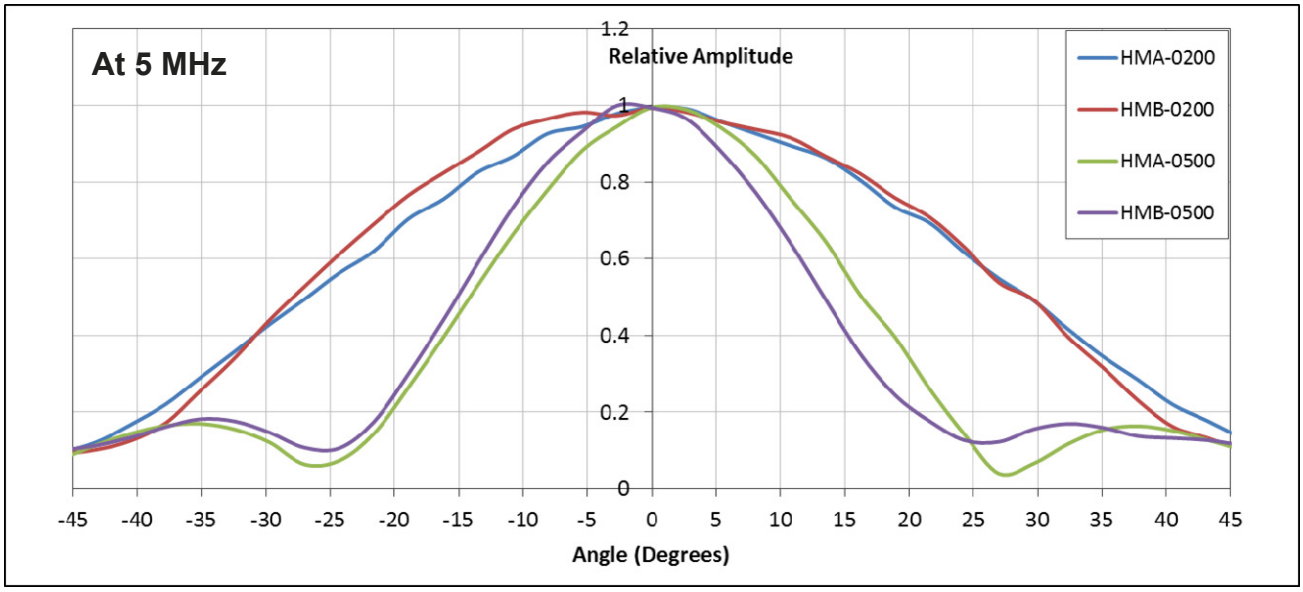
** Based on criterion defined by the International Electrotechnical Commission (IEC)

Specifications are subject to change without notice.

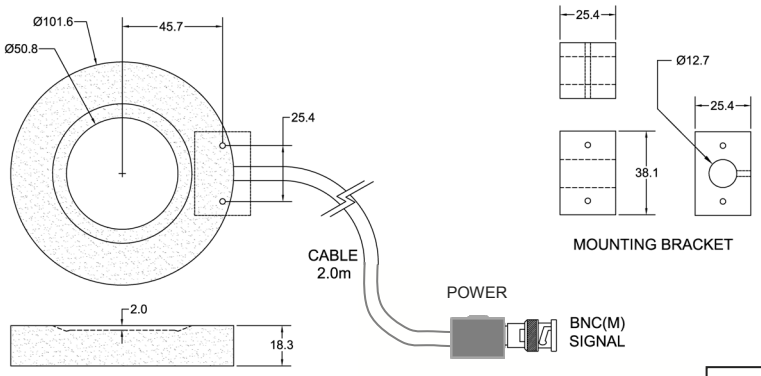
Typical Sensitivity Plot



Typical Directivity Plot



Mechanical



Universal Power Supply Included

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