

ML4X50



The ML4X50 is a circular plane piston, immersion, hydrophone for measurements in the frequency range 100kHz to 1MHz. Comprising a 4-layer laminate of 50 micron PVdF, the ML4X50 provides flat, broadband, sensitivity and directivity patterns that display exceptional correlation with circular plane piston theoretical modelling. The hydrophone can be used with our Hydrophone Booster Amplifier (order code HA1)

BASIC INFORMATION

Sensor material	4 layers of 50 micron thick gold electroded Polyvinyl difluoride (PVdF) film	
Active element diameter	23 mm	
Typical probe sensitivity	-218 dB re: 1V/ μ Pa	
Nominal frequency response	300 kHz – 1 MHz:	± 0.5 dB
	50 kHz – 1 MHz:	+1.5 dB, -0.6 dB
Inter-device sensitivity variation	Within the range ± 3 dB	
Case material	316L Stainless steel	
Case diameter	31 mm	
Case length	53 mm	
Termination	5m RG58 50 Ω Co-axial Cable as standard but other options available on request	

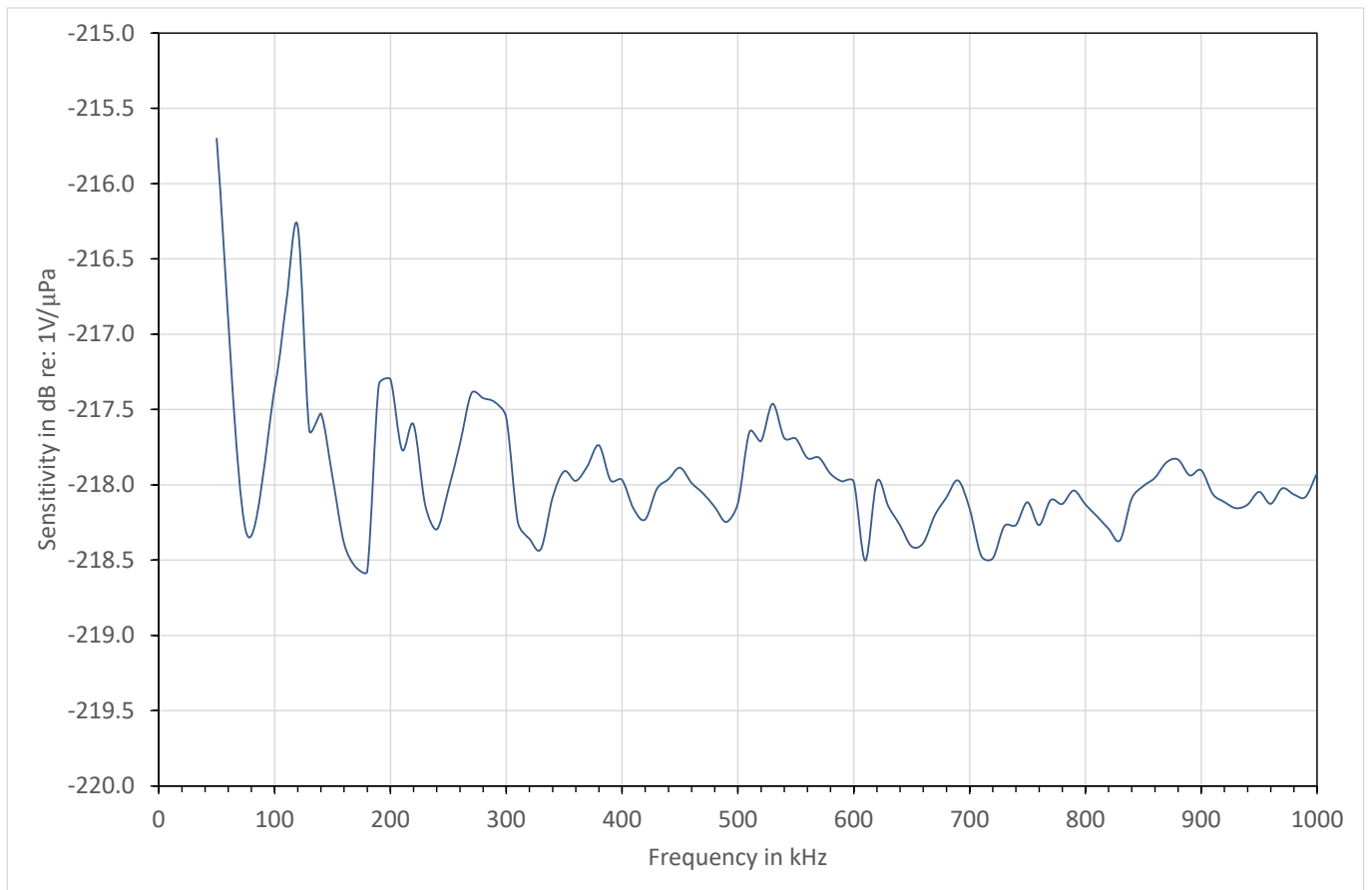


Figure 1 - Typical sensitivity of ML4X50

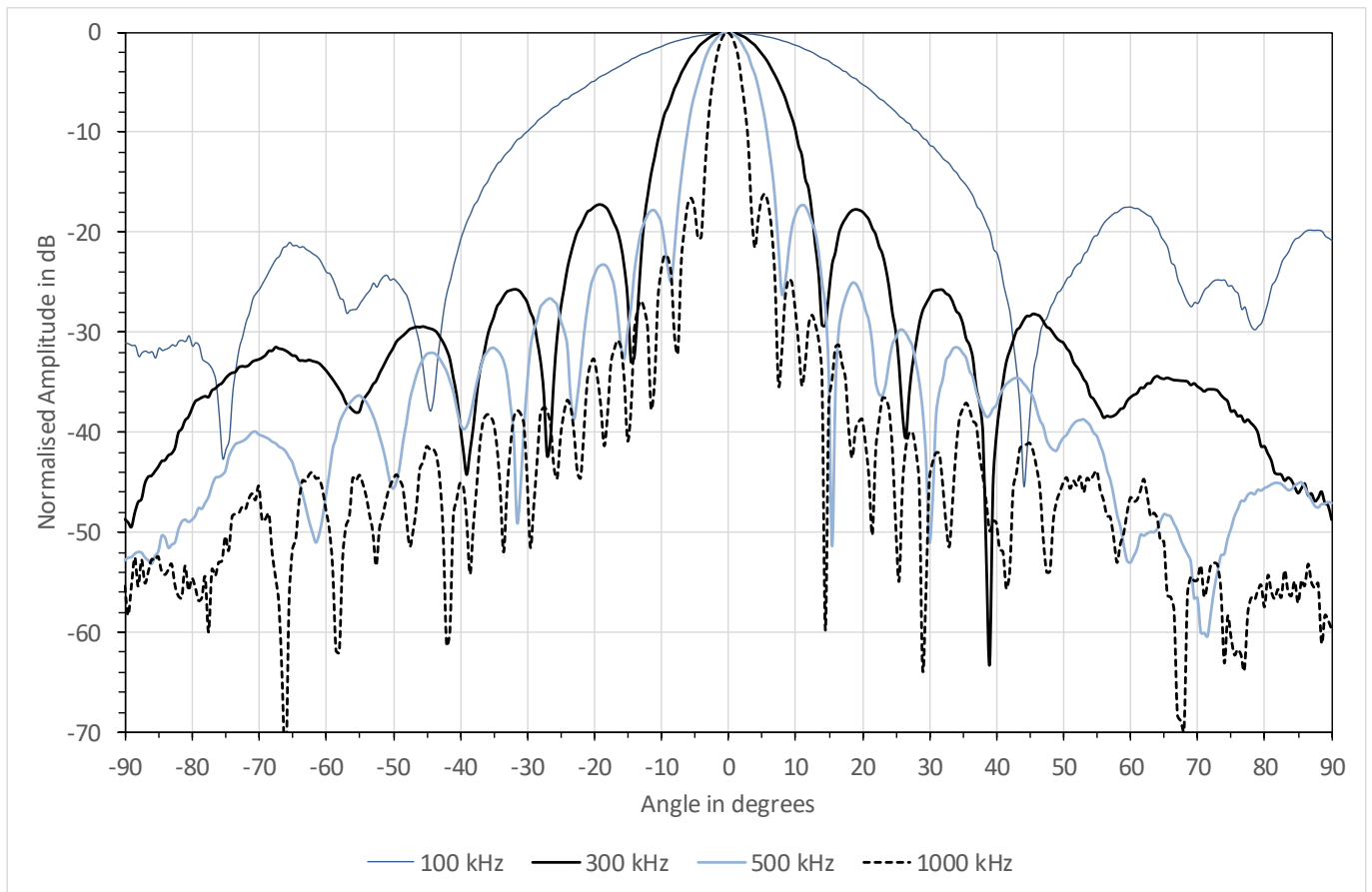


Figure 2 - Typical directivity of ML4X50

All information is based on results gained from experience and tests, and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside the control of Precision Acoustics Ltd.