

## Hydrophone booster amplifier



The Hydrophone booster amplifier provides a very flat gain and linear phase over the frequency range 50kHz to 130MHz. It has 50  $\Omega$  input and output impedance with an input Voltage Standing Wave Ratio (VSWR) approaching unity. It is ideally suited for use with hydrophones that have a low sensitivity such as needle hydrophones with small active elements such as the NH0075 and the NH0040.

## BASIC INFORMATION

Typical gain	27 dB
Typical frequency response	50 kHz – 130 MHz: $\pm 0.5$ dB
Inter-device sensitivity variation	Within the range $\pm 1$ dB
Typical VSWR	$\leq 1.4 : 1$
Operating temperature range	5 °C to 50 °C
Terminations	50 $\Omega$ BNC (input) 50 $\Omega$ BNC (output)

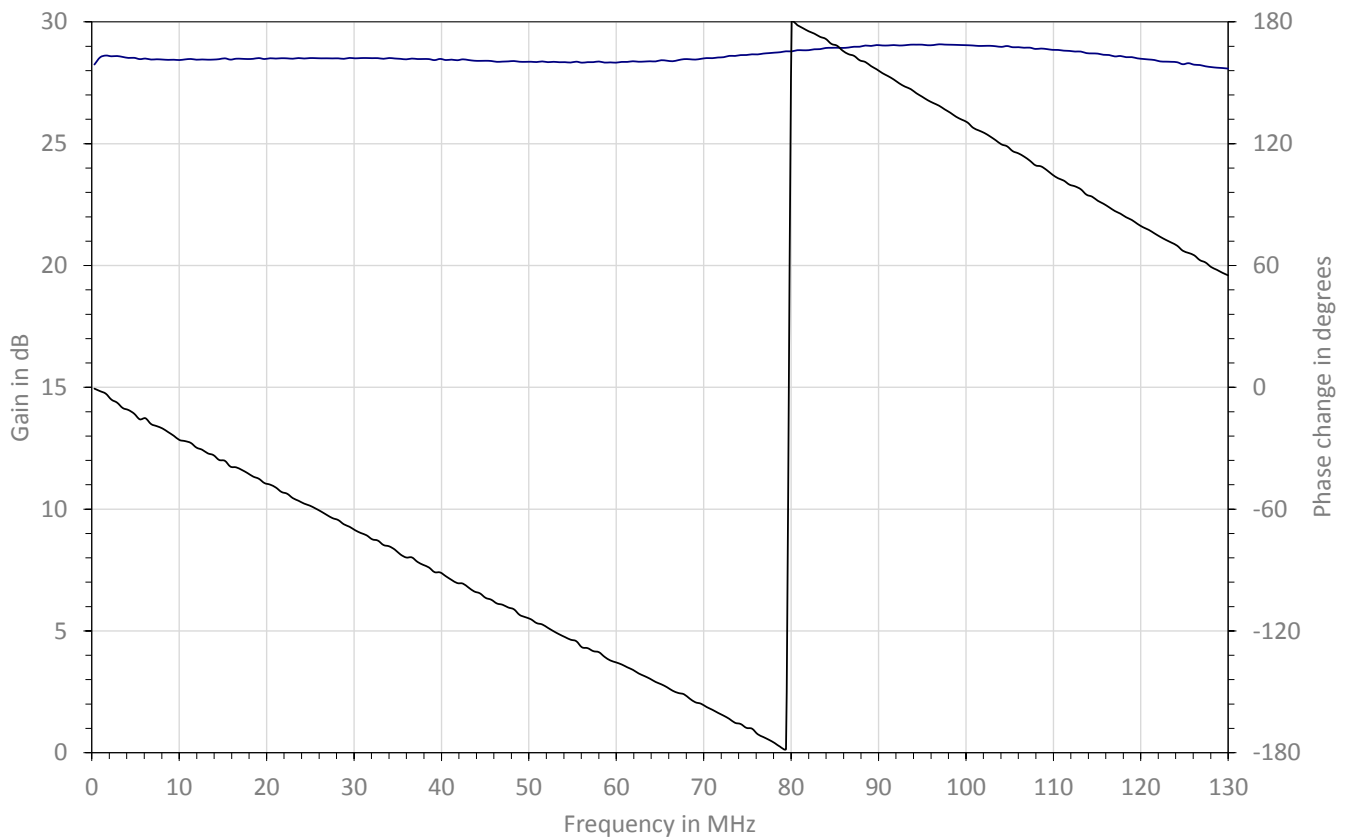


Figure 1 - Typical magnitude and phase response of the Hydrophone booster amplifier

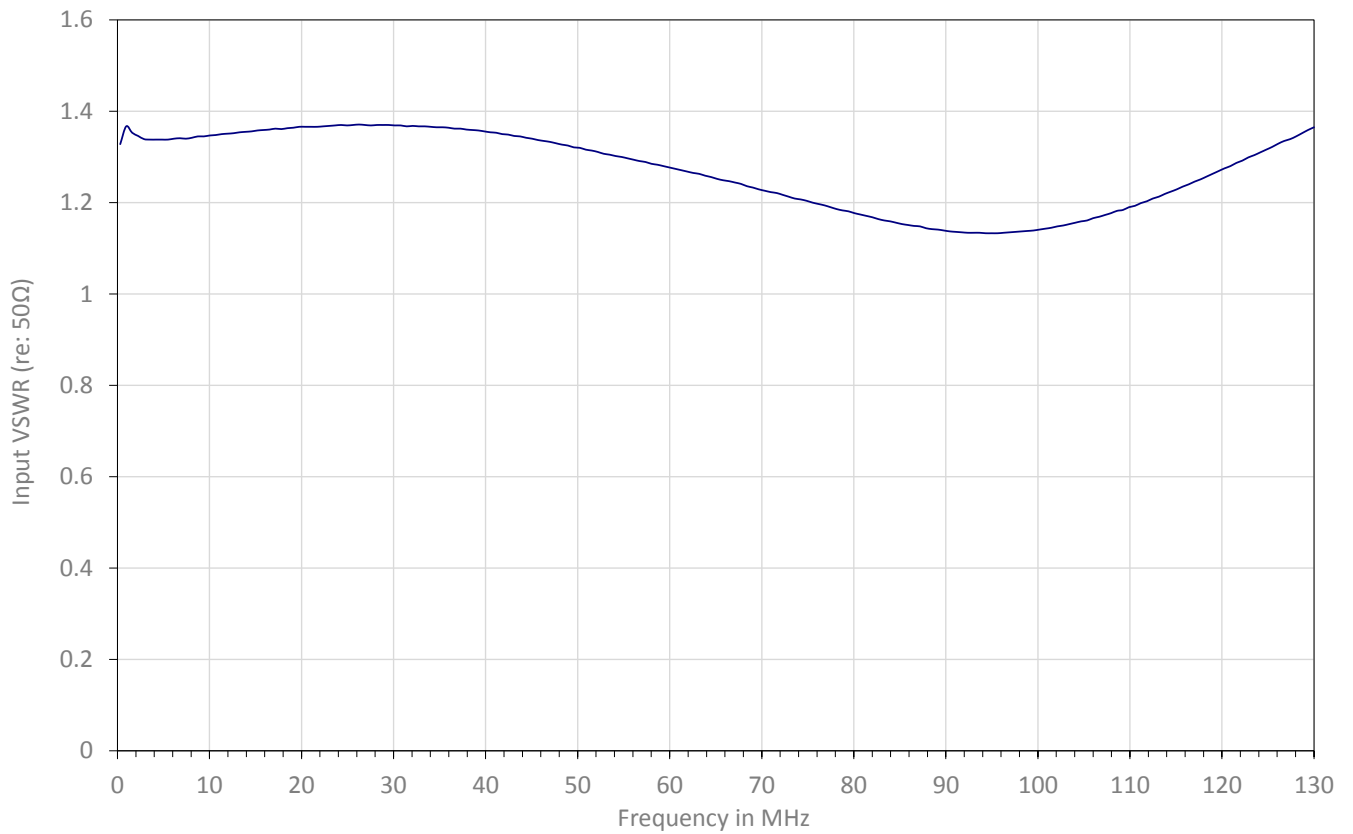


Figure 2 - Typical VSWR of the Hydrophone booster amplifier

*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.*