

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 Ω 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: ± 0.5 dB
Inter-device sensitivity variation	Within the range ± 1 dB
Typical VSWR	$\leq 1.4 : 1$
Operating temperature range	5 °C to 50 °C
Terminations	50 Ω BNC (input) 50 Ω BNC (output)

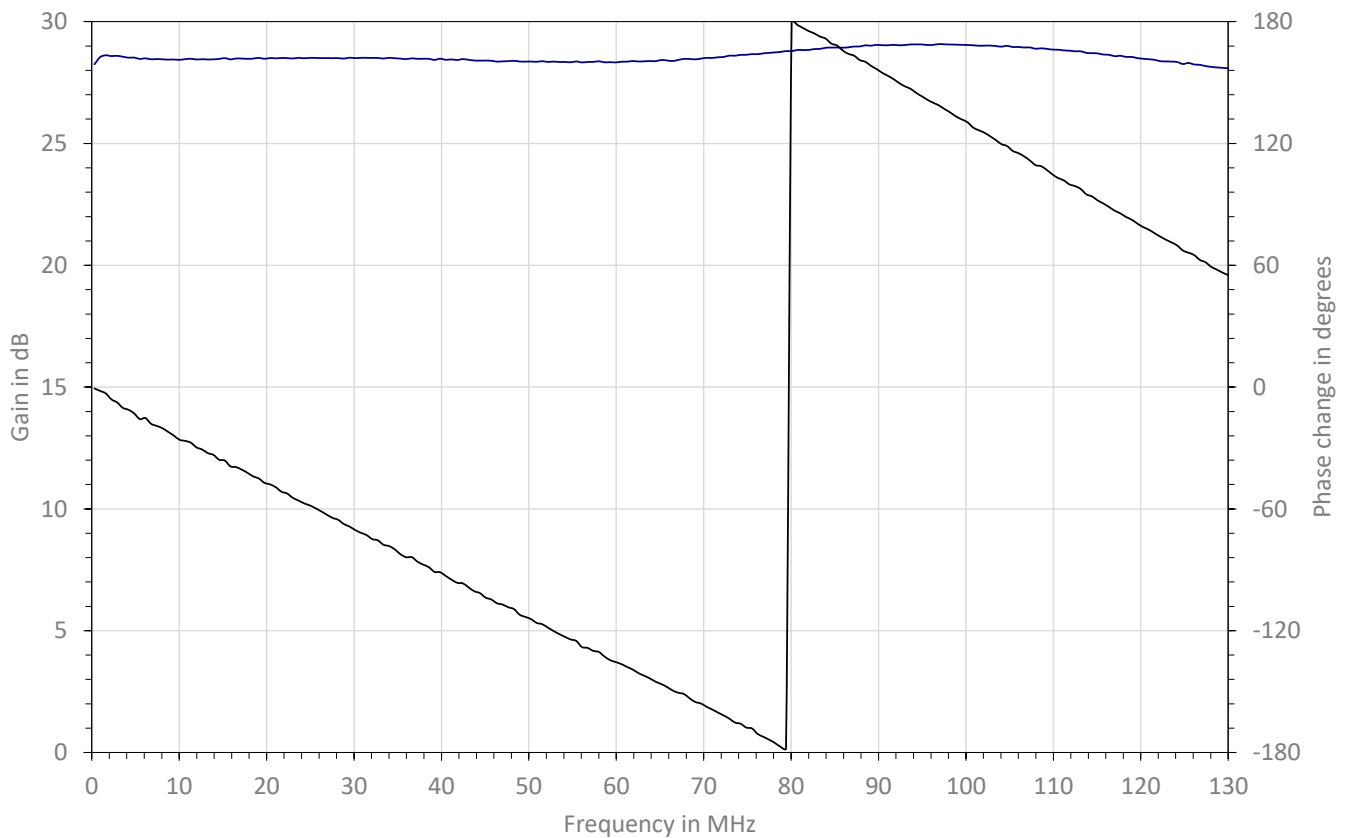


Figure 1 - Typical magnitude and phase response of the Hydrophone booster amplifier

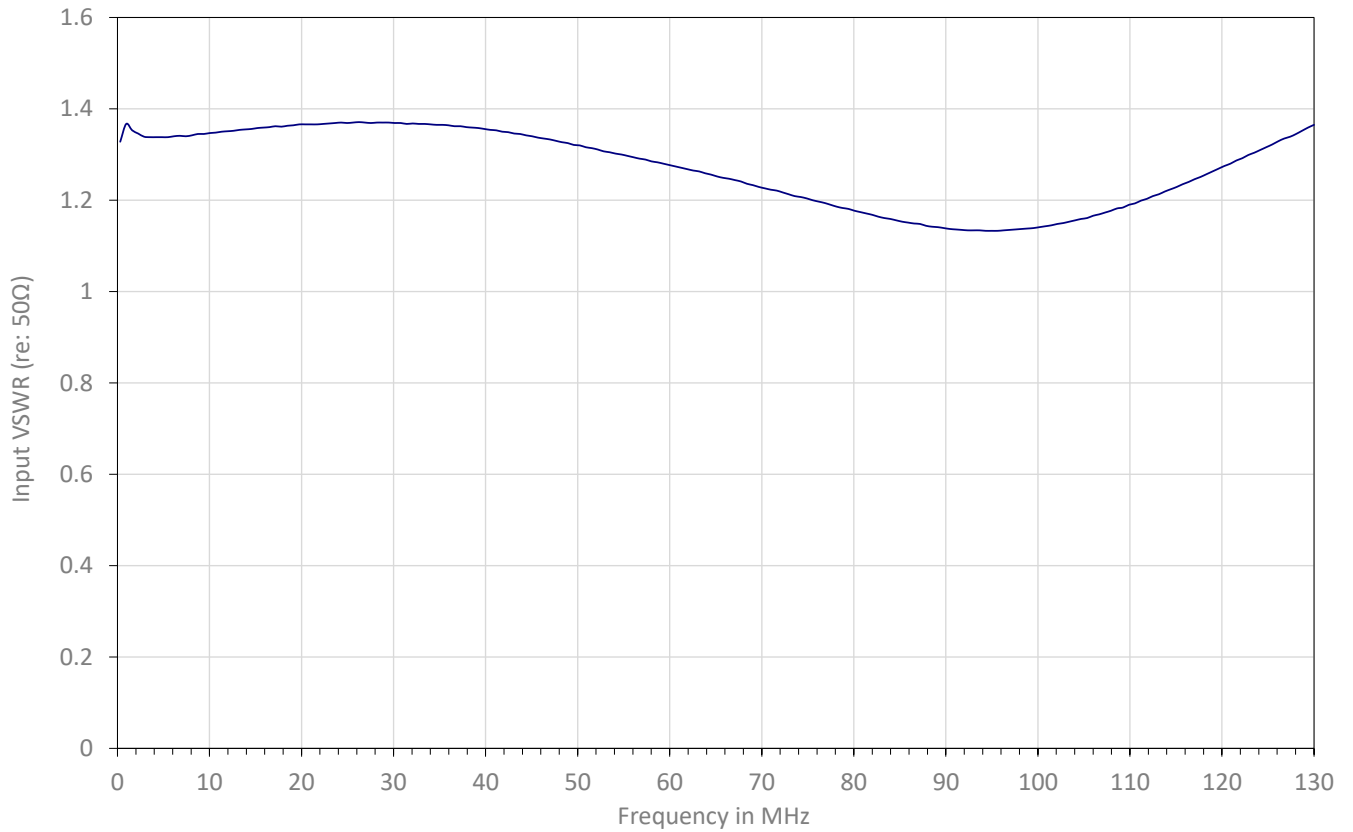


Figure 2 – Typical VSWR of the Hydrophone booster amplifier

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