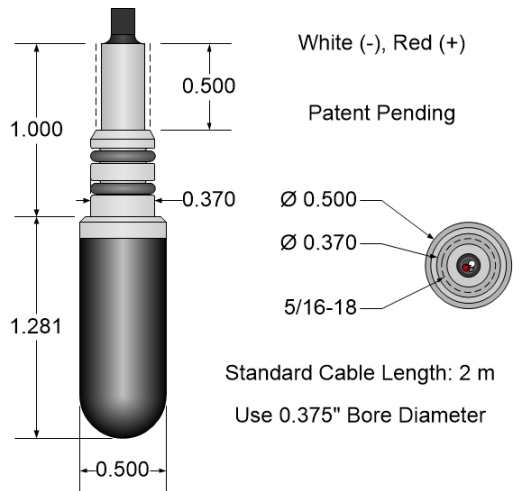


Model BT-1201

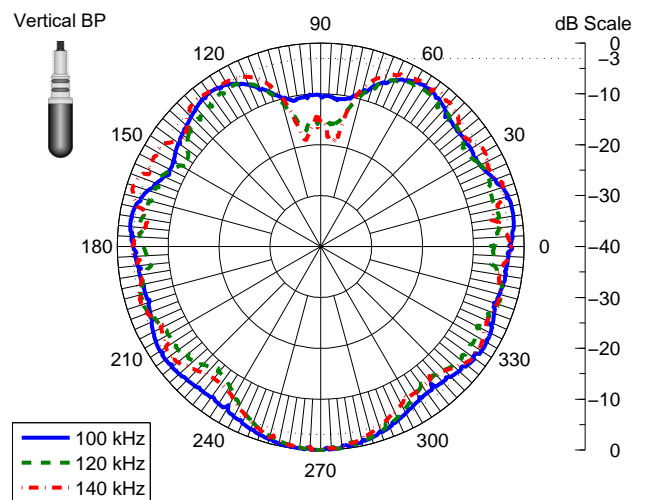
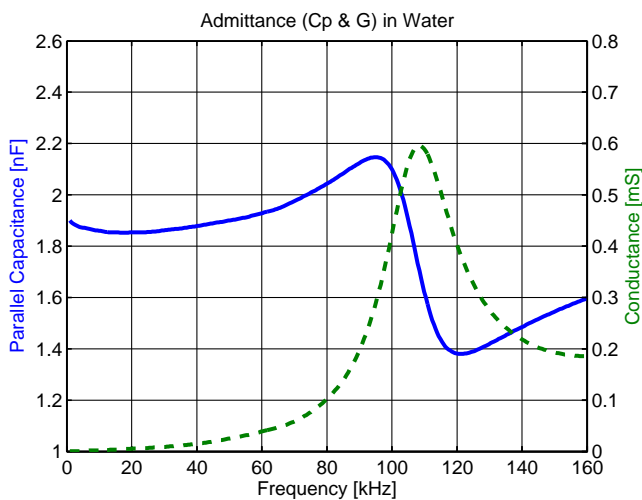
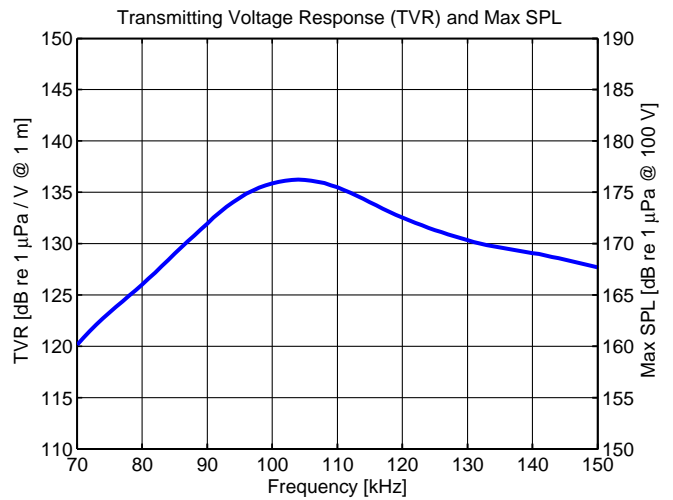
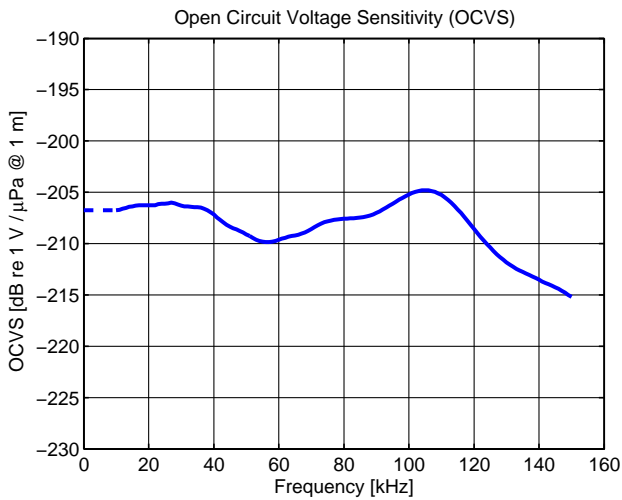
BTech's Model BT-1201 transducer is an ideal solution for high frequency underwater acoustic communication (AComms) or broadband receiving.

Specifications (Nominal):

- Resonance Frequency (f_r): 110 kHz
- Coupling Coefficient (k_{eff}): 0.35
- TVR at f_r : 137 dB re 1 μ Pa/V
- SPL (max) at f_r (@ 1 m): 177 dB re 1 μ Pa
- OCVS at f_r : -205 dB re 1 V/ μ Pa
- Horizontal Beam Pattern: Omnidirectional
- Vertical Beam Pattern: Near-omni (see plot)
- Depth (max): 100 m
- Voltage (max): 100 Vrms
- Weight (in air, in water): 4 g (a), 1.3 g (w)

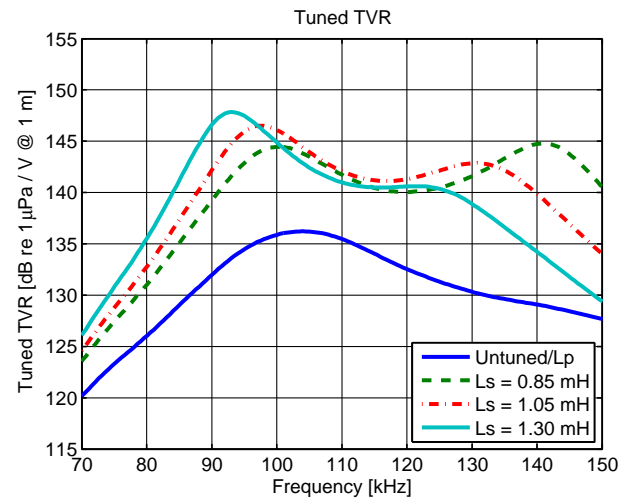
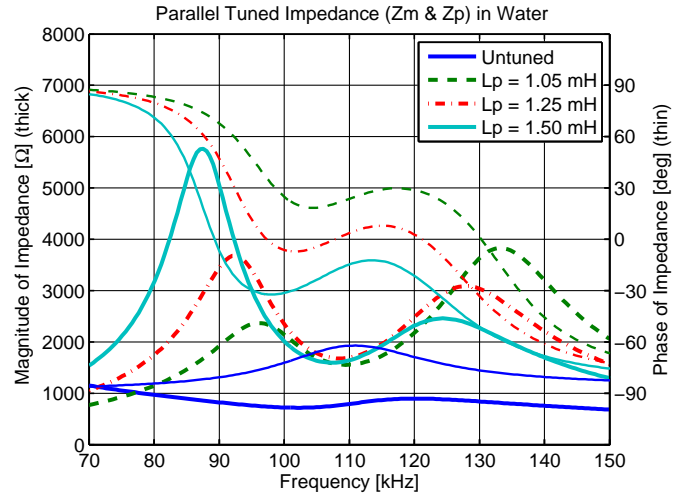
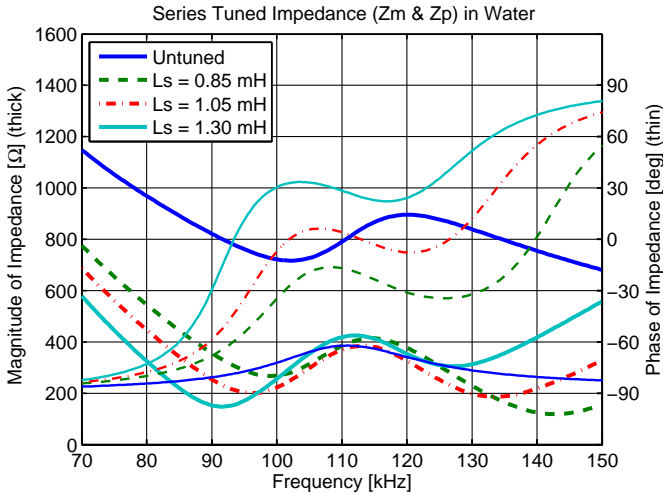
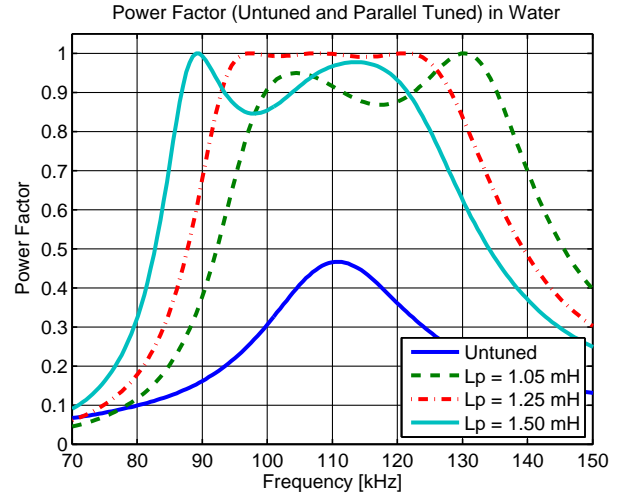
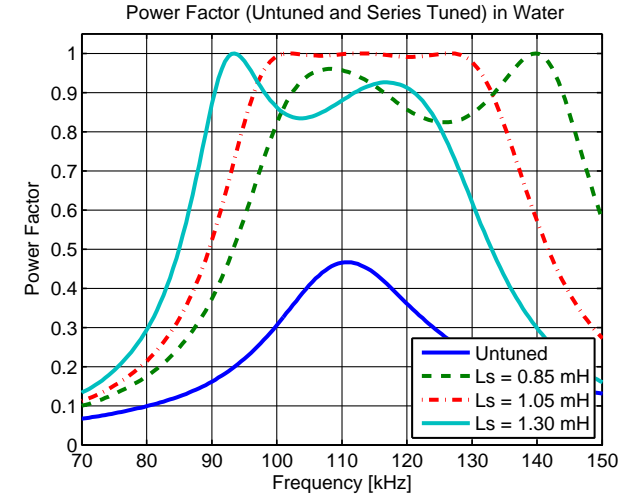


Performance Curves (Nominal):



Model BT-1201

Tuned Performance Curves (Nominal):



Tuning and Matching is required for highly effective power delivery to the transducer. The impact on system performance for several values of series and parallel inductive tuning elements are provided. BTech also offers transmit/receive electronics that interface with a DSP or benchtop equipment. BTech has extensive modeling capabilities to optimize any system configuration for greater bandwidth and efficiency.

NOTE: Devices with serial numbers below 100 have a low frequency capacitance of about 2.5 nF. Refer to the calibration sheet shipped with the device for actual admittance values.