nautelsonar

Mk II Broadband Tonpilz Transducer

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OVERVIEW

The Mk11 is a tonpilz transducer offering a high power, broadband performance. With a nominal operating frequency range from 5 kHz to 14 kHz, it has been developed from the proven 510 design, with over 35 years of installations

The robust design is tolerant of both dynamic and static pressure making it particularly suitable for both commercial and military applications. The Mk11 is fitted with a standard internal tuning network to achieve a broadband transmit response.

Nautel's MkII is now installed on Royal Canadian Navy Frigates, as part of the UWSU major sensor upgrade, replacing the 510 original design.

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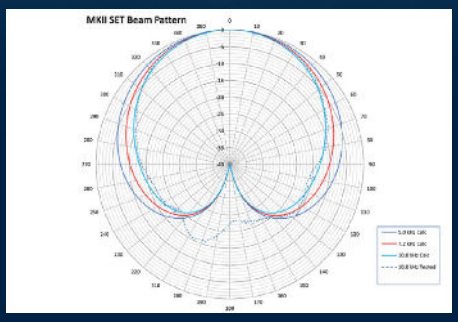
Electrical Specifications

Transmit Frequency Band	5 kHz to 14 kHz
Receive Frequency Band	2kHz to 16kHz
Receive Response	Equal to or better than -163 dB uPa/V re 1 M between 5.5kHz and 6.5kHz
Transmit Response	>137dB re 1 uPa/V re 1 M between 5 kHz to 9kHz with reak response below 6kHz, 130dB from 9kHz to 1

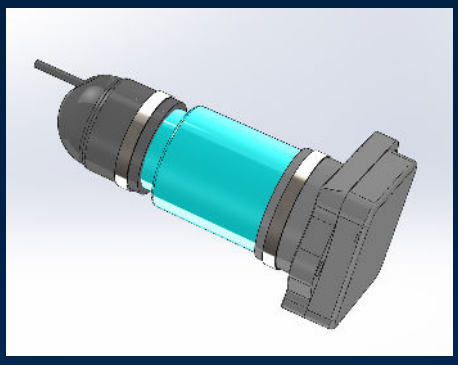


Beamwidth:

• Horizontal @ -3dB	<90 deg @ 6.25 kHz (add it correct data)
• Vertical @ -3dB	<90 deg @ 6.25 kHz (add in correct data)
Drive Voltage	Nominal Max. Drive Voltage (at resonance) - 600 Vrms
Duty Cycle	20%

Mechanical Specifications

Height	45 mm
Weight	4.8 kg (transducer and cable)
Active Face Dimensions	29.4 mm x 98.1 mm
Operating Temperature	-5C to +35C
Operating Pressure	Up to 1 Bar



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