Teledyne RESON

PLD16835

TC 2122

Dual-Frequency Survey Echosounder Transducer

TC2122

Model TC2122 is a 33kHz and 200kHz dual frequency transducer ideal for navigation and hydrographic echosounder systems. The transducer has excellent piezoceramic elements which will ensure the highest reliability and quality in echosounding. The transducer will fit Teledyne ATLAS Hyfrographic SW 60/28/6029 housing and Teledyne RESON steel housings.

FEATURES

- Narrow beams
- High acoustical performance
- Compact design
- Compatible with Teledyne ATLAS Hydrographic SW60/28/6029 housing.
- Electrical compatible with most 33kHz and 200kHz echosounders.

TECHNICAL SPECIFICATIONS

Resonant Frequency:	33kHz ±2kHz 200kHz ±5kHz
Transmitting sensitivity:	168dB ±3dB at 33KHz 174dB ±3dB at 200KHz (re 1µPa/V at 1m)
Receiving Sensitivity:	-177dB ±3dB at 33KHz -187dB ±3dB at 200KHz (re 1µPa/V)
Impedance:	80ohm ±24ohm at 33kHz and 200kHz
Beam width:	22°±2° at 33KHz 9,5°±1° at 200kHz
Beam shape:	Conical
Max input power:	1000W at 33kHz 450W at 200kHz (at 1% duty cycle)
Operating depth:	30m
Survival depth:	50m
Operating temperature range:	-2°C to +35°C
Storage temperature range:	-30°C to +50°C
Weight in air,with cable:	5kg
Housing:	PVC
Cable (length and type):	33m FALMAT Type FM088095-7, 4x1 (2 x twisted pair) PUR Jacket, WATER BLOCK, Kevlar Braid 800lbs breaking strength (O.D. 11mm) - pigtail

TELEDYNE RESON
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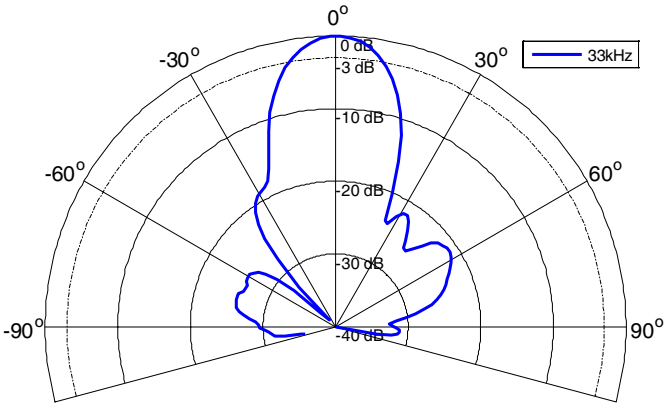
Transducer TC2122

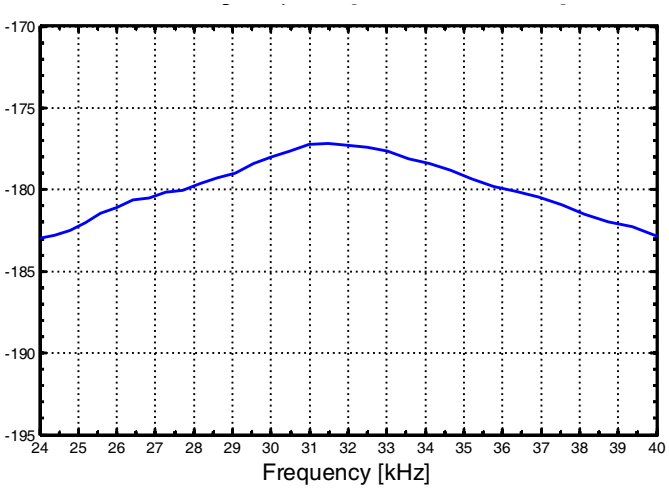
Dual-Frequency Survey Echosounder Transducer

Typical graphs 33kHz

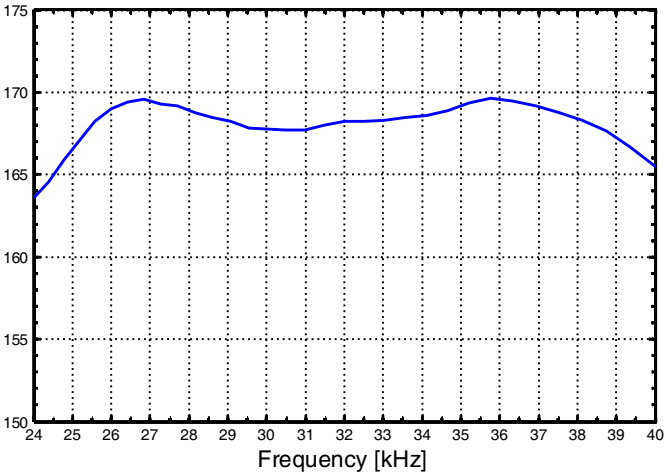
Horizontal Directivity Pattern



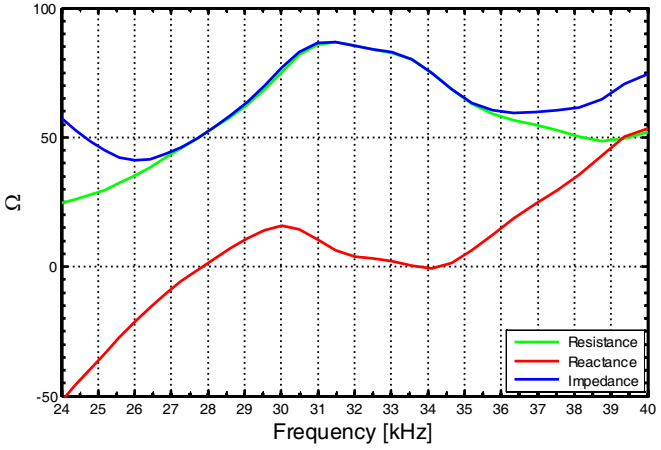
Receiving Sensitivity [dB re 1V/µPa @ 1m]



Transmitting Sensitivity [dB re 1µPa/V @ 1m]



Impedance



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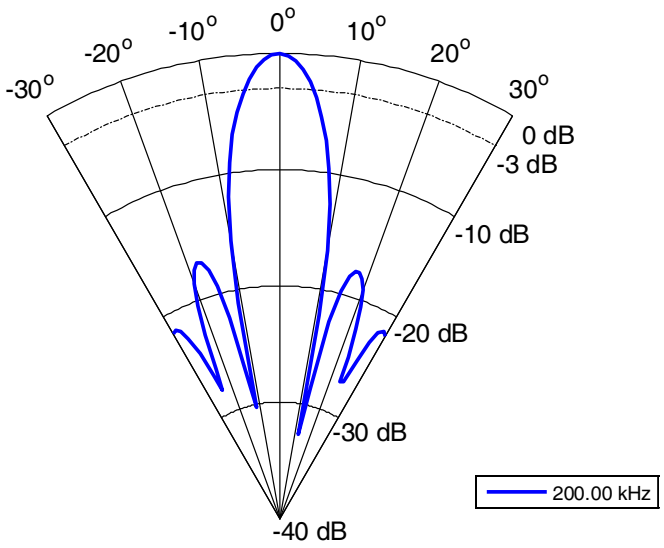
Transducer TC2122

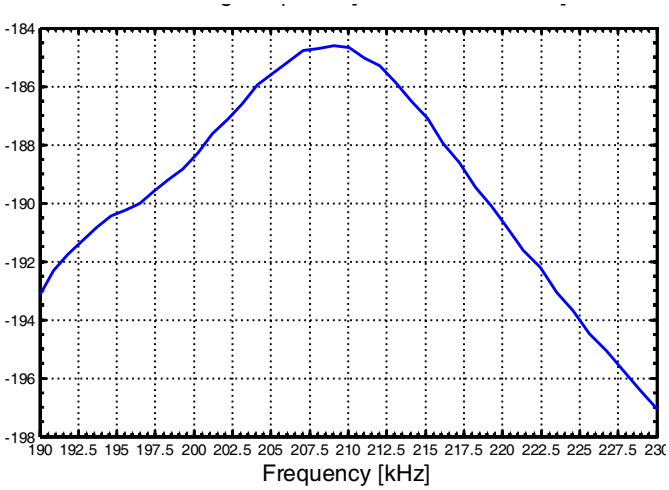
Dual-Frequency Survey Echosounder Transducer

Typical graphs 200kHz

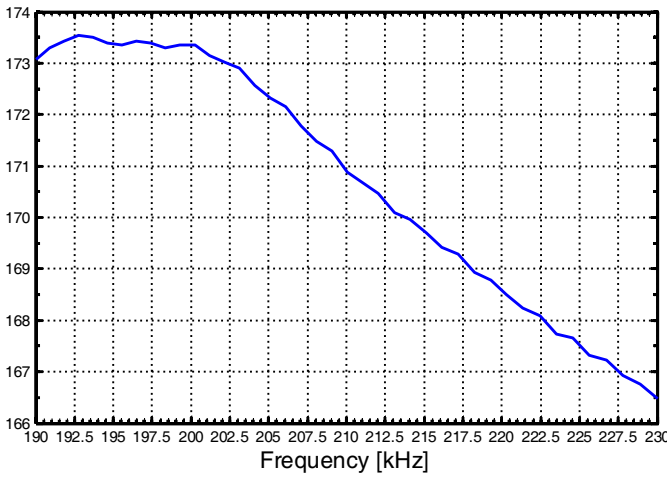
Horizontal Directivity Pattern



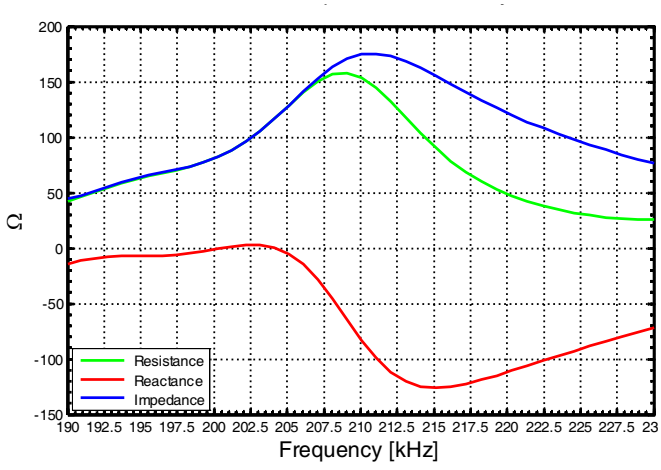
Receiving Sensitivity [dB re 1V/µPa @ 1m]



Transmitting Sensitivity [dB re 1µPa/V @ 1m]



Impedance



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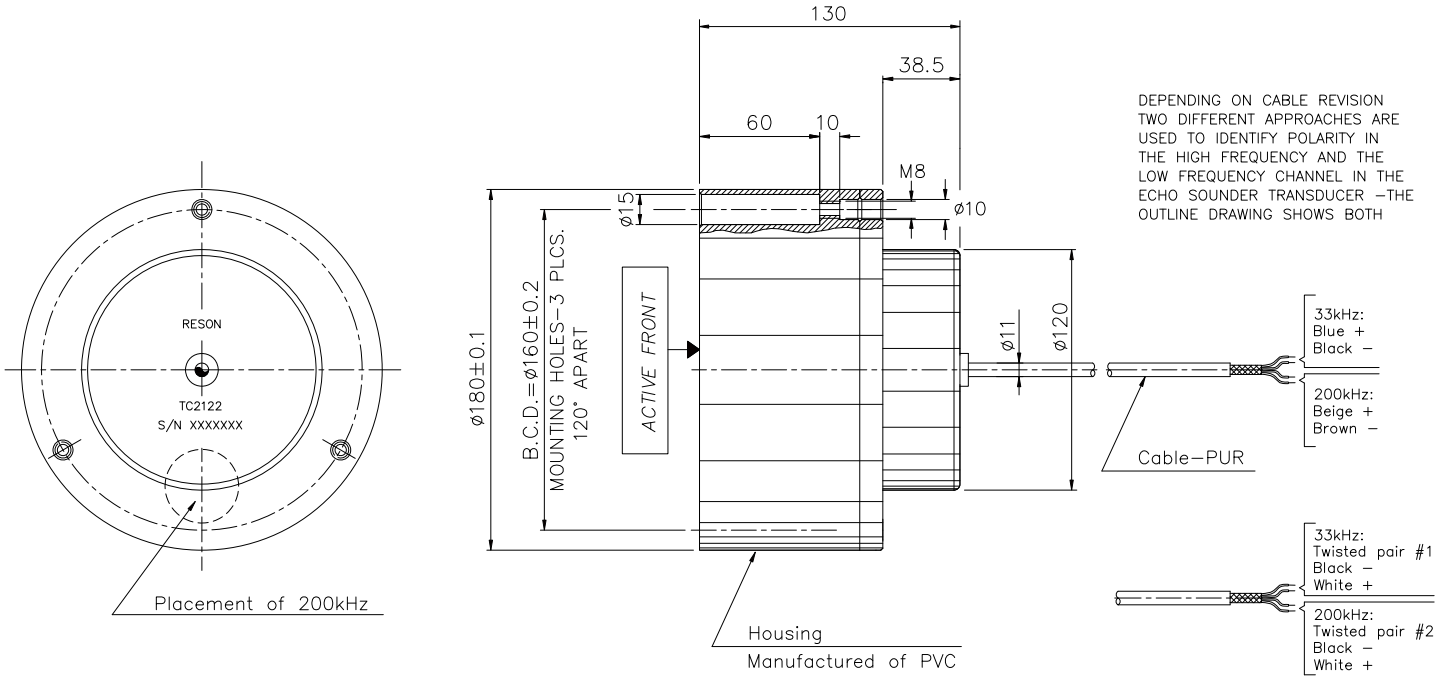
Outline dimentions



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