

SONO Comm 008/D13

Communications transducer

Low frequency transducer for transmit and receive applications →



SONO Comm 008/D13 is a low frequency, high power transmitter and receiver, suitable for underwater communications, positioning and navigation. SONO Comm 008/D13 is designed to be fixed to telemetry units and pressure vessels via glass to metal seals.

It is operational to full ocean depth due to its oil-filled, rubber encapsulated design.

Key features

- Low-frequency, high-power
- Long-term stability
- Horizontally omni-directional
- Vertical directionality greater than 270°
- Durable and reliable construction

Applications

- Underwater wireless communication
- Underwater positioning
- Navigation
- Underwater telephones
- Full ocean depth operations

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Nominal resonant frequency	8.5 kHz & 13 kHz
Receive sensitivity @8.9 kHz	-175 dB re 1V/mPa
Recommended receive frequency range	7 kHz - 16 kHz
Transmit sensitivity @ 8.7 kHz	+135 dB re 1μPa/V @ 1 m
Recommended transmit frequency range	7 kHz - 16 kHz
Maximum applied voltage at resonance	1,000 Vrms
Low frequency capacitance (@ 1 kHz)	13 nF
Horizontal beam pattern	Omni-directional +/- 2 dB @ 10 kHz
Vertical beam pattern	>270°

Mechanical

Dimensions	Ø 115 mm x 75 mm
Weight in air / water	Approx. 1.8 kg / 1 kg
Maximum recommended operating depth	Full ocean depth
Operating temperature	-5° C to +35° C
Mounting	Fixed to telemetry / pressure vessel