

SonoFlex 1350 Flexural Disc Transducer



Typical Uses: Low Frequency Sound Source, Calibration Standard, Sound Navigation and Ranging Applications



FEATURES

The SonoFlex 1350 transducer is a flexural disc transducer providing a high power low frequency sound source. Compared to many low frequency projectors the SonoFlex 1350 is compact and low cost.

Due to the flexural motion this transducer makes use of the projector should be operated at depths of 10m or greater to ensure a sufficient amount of pressure is placed on the transducer.

The SonoFlex series are reliable, robust, high performance, low frequency transducers.

ADVANTAGES

- Horizontally omni-directional
- High Performance
- Low Frequency Acoustic Source
- Lightweight with high efficiency

ORDER NUMBER

CTG 1181-0002

Please specify any additional cable, alternative connectors and/or calibration requirements with order

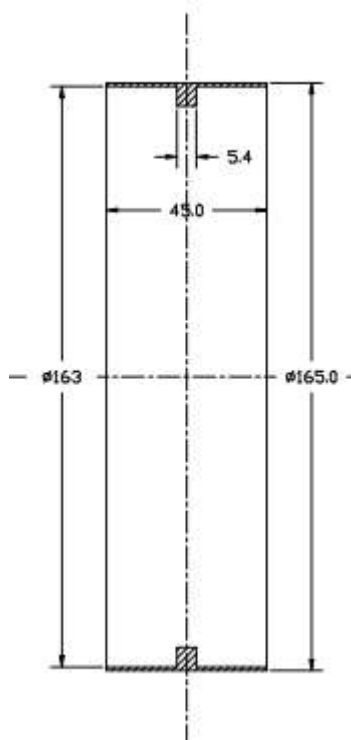
TECHNICAL SPECIFICATION

Nominal resonant frequency	1350 Hz (in bending motion)
Integral Amplifier or Tuning Element	No
Receive Sensitivity @ 1350 Hz	- 157 dB re 1V/ μ Pa
Recommended receive frequency range	10Hz – 2kHz
Linear frequency range	10-750 Hz
Maximum acoustic input @1350 Hz	+ 214 dB re 1 μ Pa
Transmit sensitivity @ 1350 Hz	+ 134 dB re 1 μ Pa/V at 1m
-3dB bandwidth	150 Hz
Quality Factor	9
Recommended transmit frequency range	750Hz – 4kHz
Maximum source level @ 1350 Hz	+ 191.5 dB re 1 μ Pa at 1m
Maximum applied voltage	750 Vrms
Horizontal beam pattern	Omni-directional
Vertical beam pattern	Hemispherical

MECHANICAL SPECIFICATION

Dimensions	Maximum outer diameter 165mm, Length 45mm
Transducer head weight in air	Approximately 2.6kg
Transducer head weight in water	Approximately 1.6kg
Minimum operating depth	10m
Maximum recommended operating depth	100m
Survival depth	200m
Operating temperature range	-5 to +35°C
Cable	5m screened twisted pair cable
Connector	Bare ends
Mounting	Dunking

MECHANICAL DRAWING

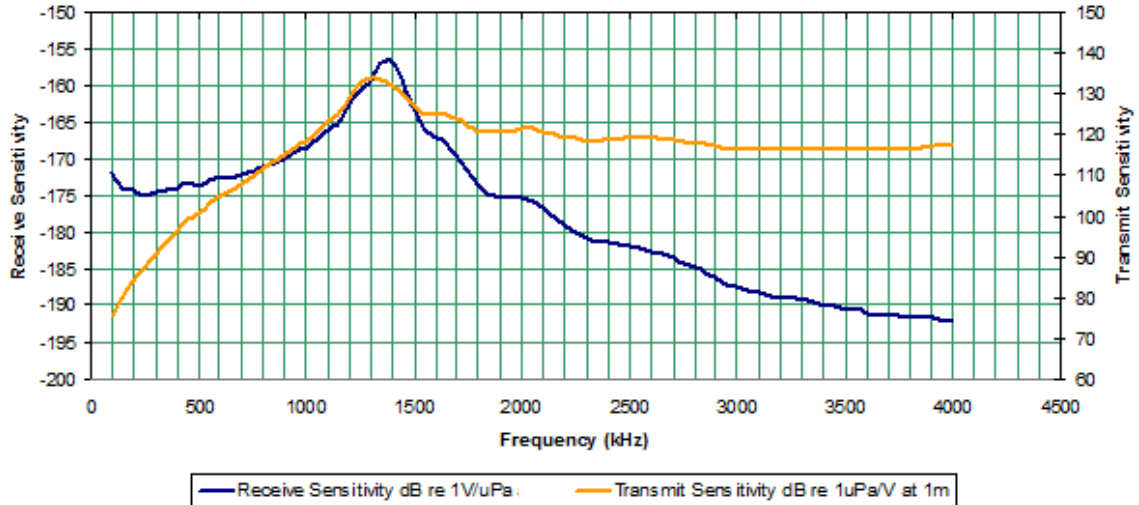


CONNECTOR LAYOUT

Not Applicable

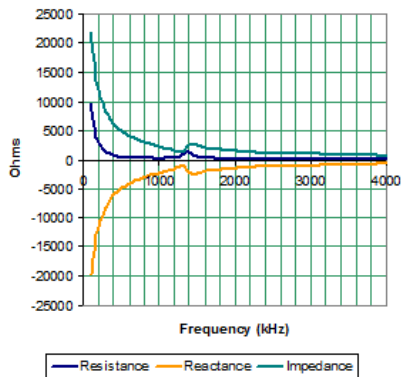
SENSITIVITY

SonoFlex 1350 Sensitivity



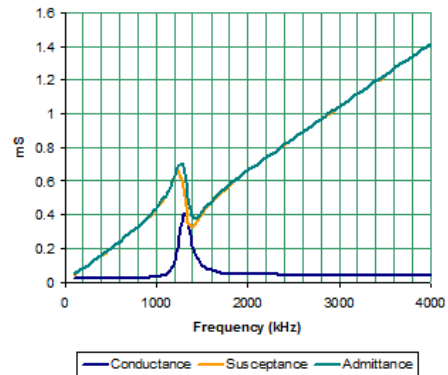
IMPEDANCE

SonoFlex 1350 Impedance



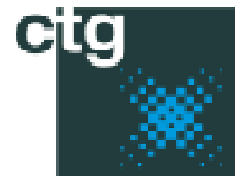
ADMITTANCE

SonoFlex 1350 Admittance



HORIZONTAL BEAM PATTERN

VERTICAL BEAM PATTERN



VARIATIONS

N/a

*** For further information please contact CTG.

In view of our policy of continual improvement, the designs and specifications of our products may vary from those described 2271-025-RS-A)

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