

# SonoFlex 1600 Flexural Disc Transducer



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

## FEATURES

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The SonoFlex 1600 transducer is a flexural disc transducer providing a high power low frequency sound source. Compared to many low frequency projectors the SonoFlex 1600 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 1162-0001

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

## TECHNICAL SPECIFICATION

Nominal resonant frequency	1600 Hz (in bending motion)
Integral Amplifier or Tuning Element	No
Receive Sensitivity @ 1700 Hz	- 157 dB re 1V/ $\mu$ Pa
Recommended receive frequency range	10Hz – 2.25kHz
Linear frequency range	10Hz – 1kHz
Maximum acoustic input @1700 Hz	+ 214.5 dB re 1 $\mu$ Pa
Transmit sensitivity @ 1650 Hz	+ 132.5 dB re 1 $\mu$ Pa/V at 1m
-3dB bandwidth	200Hz
Quality Factor	8
Recommended transmit frequency range	1.25kHz – 3kHz
Maximum source level @ 1650 Hz	+ 190 dB re 1 $\mu$ Pa at 1m
Maximum applied voltage	750 Vrms
Horizontal beam pattern	Omni-directional
Vertical beam pattern	Hemispherical

## MECHANICAL SPECIFICATION

Dimensions	***
Transducer head weight in air	***
Transducer head weight in water	***
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

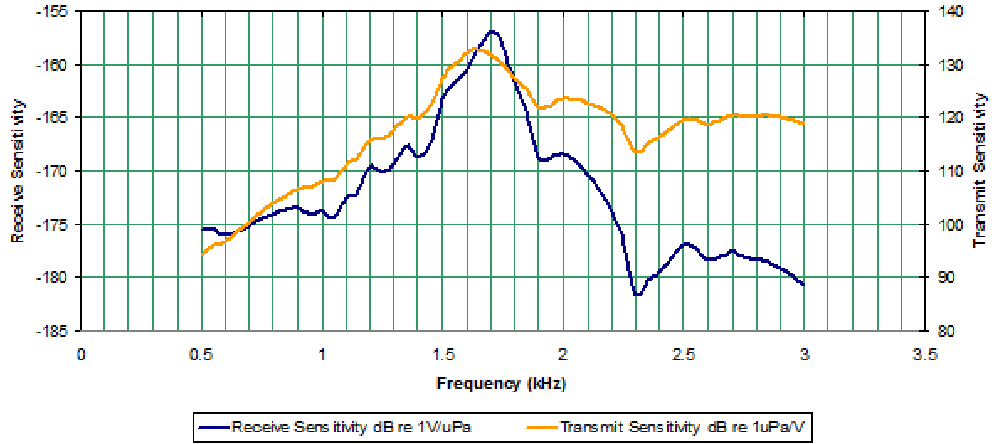
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## CONNECTOR LAYOUT

Not Applicable

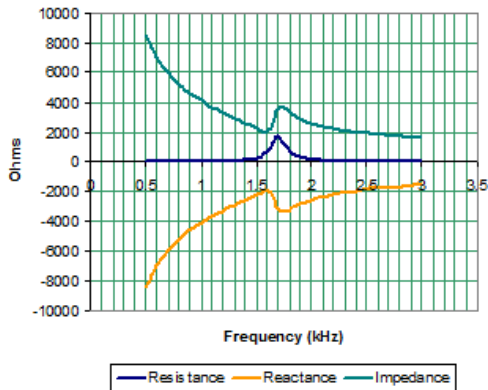
## SENSITIVITY

SonoFlex 1600 Sensitivity



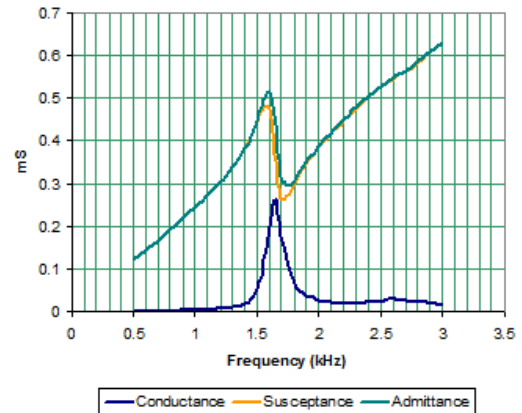
## IMPEDANCE

SonoFlex 1600 Impedance



## ADMITTANCE

SonoFlex 1600 Admittance



## HORIZONTAL BEAM PATTERN

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## VERTICAL BEAM PATTERN

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## VARIATIONS

N/a



Chelsea  
Technologies  
Group Ltd

55 Central Avenue  
West Molesey  
Surrey KT8 2QZ  
United Kingdom  
Tel: +44 (0)20 8481 9000  
Fax: +44 (0)20 8941 9319  
sales@chelsea.co.uk  
www.chelsea.co.uk

\*\*\* 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 2271-026-RS-A)