

BroadBand 026/D55 DUAL FREQUENCY BROADBAND PROJECTOR



Typical Uses: Acoustic Reference Standard, High Power Sound Source



FEATURES

The BroadBand 026/D55 is a dual frequency transducer providing excellent solution to the problems of working over large bandwidths, which has a horizontally omnidirectional beam pattern.

A feed from the high frequency transducer through the low frequency transducer allows both to operate from a single cable without any disruption to the beam pattern. This transducer is made with a harder ceramic making it ideal for transmitting applications. The BroadBand series are highly reliable transducers and the BroadBand 026/D55 comes in a robust and durable polyurethane coating.

ADVANTAGES

- Horizontally omni-directional
- Long-term stability
- Durable and reliable construction
- Operational over a wide bandwidth

ORDER NUMBER

CTG 0615-003

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

TECHNICAL SPECIFICATION

Nominal resonant frequency	26 kHz and 55kHz
Integral Amplifier or Tuning Element	No
Receive Sensitivity @ 32 kHz	- 190 dB re 1V/ μ Pa
Recommended receive frequency range	10Hz – 36kHz & 50kHz-80kHz
Linear frequency range	10Hz – 27kHz
Maximum acoustic input @32kHz	+ 237.5 dB re 1 μ Pa
Transmit sensitivity @ 58 kHz	+ 152 dB re 1 μ Pa/V at 1m
-3dB bandwidth	10 kHz
Quality Factor	5.5
Recommended transmit frequency range	20-80kHz
Maximum source level @ 58kHz	+ 199.5 dB re 1 μ Pa at 1m
Maximum applied voltage	240 Vrms
Low Frequency capacitance (@ 1kHz)	44 nF on LF transducer and 10nF on HF transducer
Horizontal beam pattern	Omni-directional +/- 1.0 dB at 30kHz
Vertical beam pattern	>270°

MECHANICAL SPECIFICATION

Dimensions	***
Transducer head weight in air	***
Transducer head weight in water	***
Maximum recommended operating depth	625m
Survival depth	1250m
Operating temperature range	-5 to +35°C
Cable	5m triple screened twisted pair cable
Connector	Bare ends
Mounting	Dunking

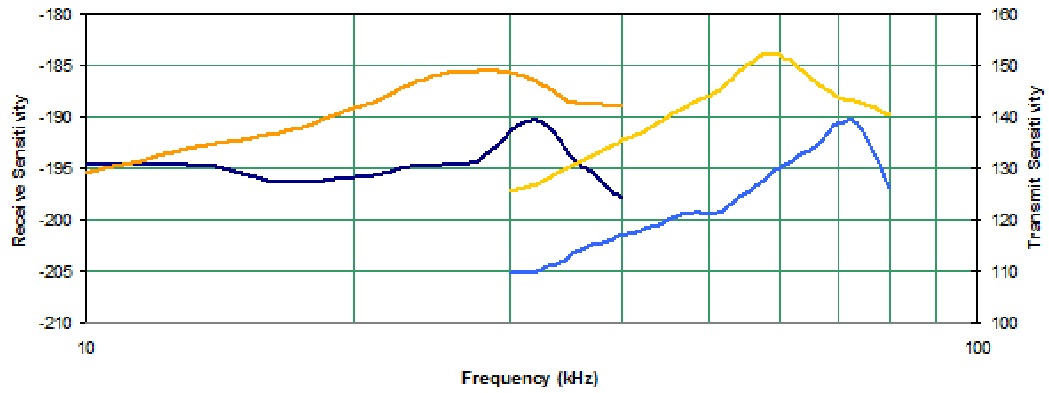
MECHANICAL DRAWING

CONNECTOR LAYOUT

N/a

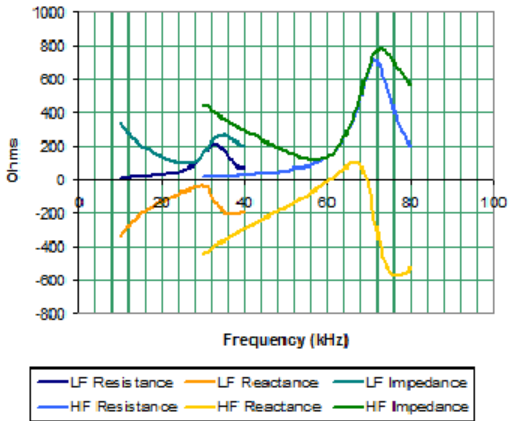
SENSITIVITY

BroadBand 026/D55 Sensitivity



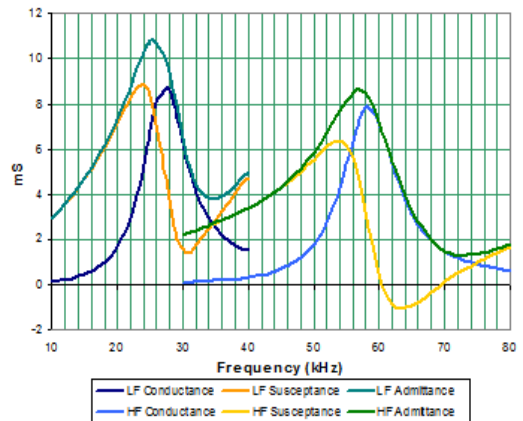
IMPEDANCE

BroadBand 026/D55



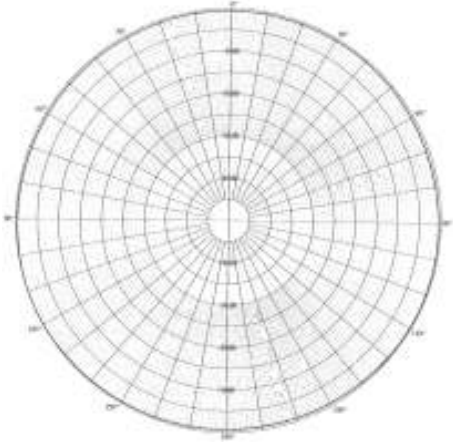
ADMITTANCE

BroadBand 026/D55 Admittance



HORIZONTAL BEAM PATTERN @ 30kHz

VERTICAL BEAM PATTERN



VARIATIONS

N/a



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*** Please contact CTG for further information
In view of our policy of continual improvement, the designs and specifications of our products may vary from those described 2271-022-RS-A)