



- Omnidirectional in the full frequency range
- Wide frequency range
- Durable construction
- Long term stability
- Individually calibrated

## TC4033

The TC4033 provides uniform omnidirectional characteristics within the full frequency range of 1Hz to 140kHz.

The Typical sensitivity of -203dB re 1V/ $\mu$ Pa and the capacitance of 7nF, ensure an excellent signal to noise ratio, thereby allowing TC4033 to be used with extension cables with only a limited reduction in sensitivity.

The TC4033 offers excellent acoustic characteristics and durability, which makes it ideal for a wide range of applications and for calibration purposes.

### TECHNICAL SPECIFICATIONS

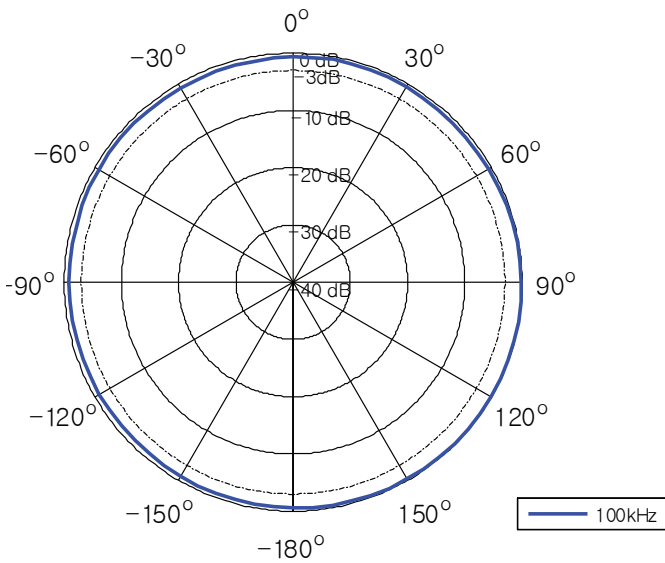
Usable Frequency range:	1Hz to 140kHz
Linear Frequency range:	1Hz to 80kHz
Receiving Sensitivity:	-203dB $\pm$ 2dB re 1V/ $\mu$ Pa at 250Hz
Transmitting Sensitivity:	144dB $\pm$ 2dB re 1 $\mu$ Pa/V at 1m at 100kHz
Directivity, Horizontal:	Omnidirectional $\pm$ 2dB at 100kHz
Vertical Directivity:	270 $^{\circ}$ $\pm$ 2dB at 100kHz
Nominal Capacitance:	7,8nF (incl.10m cable)
Operating depth:	900m
Operating Temperature range:	-2 $^{\circ}$ C to +80 $^{\circ}$ C
Storage Temperature range:	-40 $^{\circ}$ C to +80 $^{\circ}$ C
Weight incl. 10m cable, (in air):	1.5kg
Cable (length and type):	Standard 10m shielded pair DSS-2/MIL-C-915. Optional cable length available on request
Connector type:	BNC
Encapsulating material:	Special formulated NBR
Metal body:	Alu bronze AlCu10Ni5Fe4



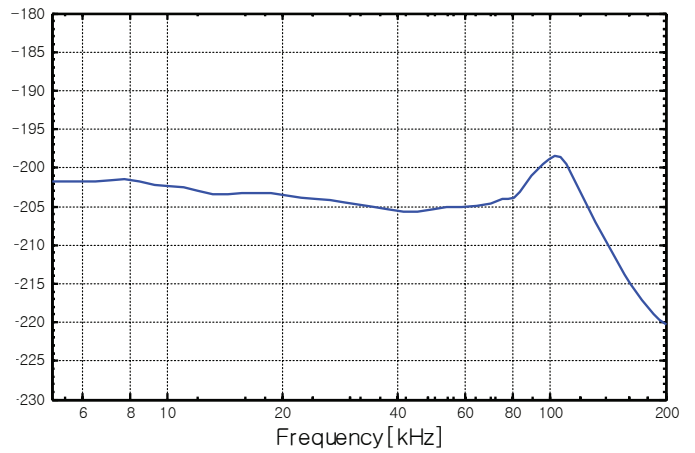
**Documentation:**

Individually calibration curves:	Sensitivity at ref.: frequencies: 250 kHz	Receiving sensitivity: At 5 kHz to 200 kHz	Impedance: 5 kHz to 200kHz
Horizontal directivity: At 100 kHz	Vertical directivity: At 100 kHz	Transmitting sensitivity: 5 kHz to 200 kHz	

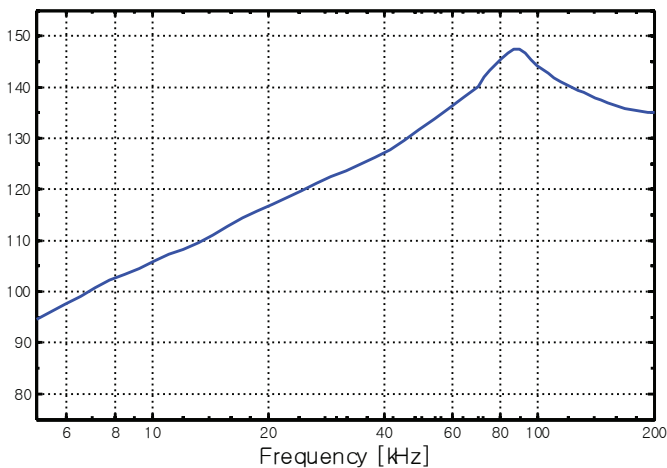
Horizontal directivity pattern



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



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



Impedance

