

## M18C-4.0 SPECIFICATIONS

M18C-4.0 Sphere

## OVERVIEW

The M18C-4.0 is a 4" diameter spherical transducer. Like all of our M18Cs, it is omnidirectional in transmitting and receiving and has a depth rating of 2500 m. This transducer is perfect as a high-power projector near resonance, as well as a wide band transmitter and receiver. Applications include marine mammal observation, active/passive sonar, and underwater communications.



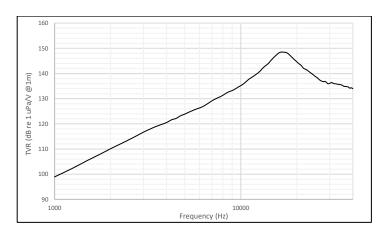
## **CHARACTERISTICS**

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PHYSICAL.		
	Maximum Operating Depth	2500 m
	Mass	2 Kg
	Diameter	108 mm
	Storage Temperatures	-40°C to +70°C
	Operating Temperatures	0°C to +35°C
	Connector Type	Subconn OM3M
	Locking Sleeve	Subconn DLSA-F

## **ACOUSTIC:**

Resonance Frequency	17 kHz
Maximum Transmitted Voltage Response	149 dB re μPa/V @ 1m
Maximum SPL	204 dB re 1 μPa @ 1 m
Maximum Drive Voltage	600 Vrms
Transmitting Range	1kHz-40kHz
Receiving Range	1kHz-30kHz
Directivity	Omni-Directional
Capacitance	55 nF
Cavitation Depth at 204 dB re μPa @ 1 m	35 Meters



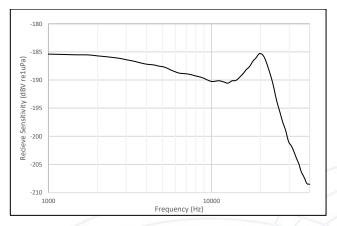


Figure 1: Transmit Voltage Response for M18C-4.0

Figure 2: Receive Sensitivity Plot for M18C-4.0

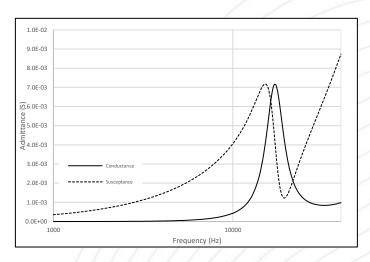


Figure 3: Admittance Plot for M18C-4.0

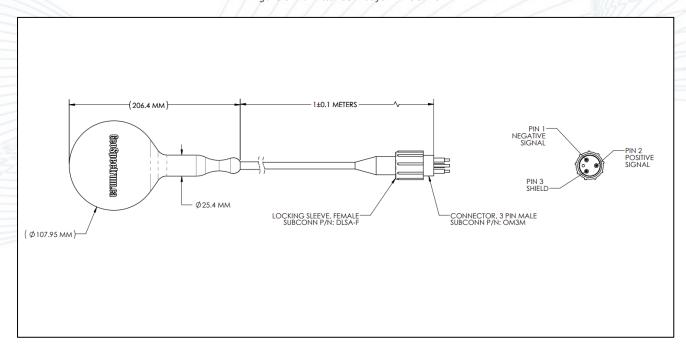


Figure 4: Dimensions of the M18C-4.0 with labeled pin out