



# M18C-2.5 SPECIFICATIONS

## M18C-2.5 Sphere

### OVERVIEW

The M18C-2.5 is a 2.5” diameter spherical transducer. Like all of our M18Cs, it is omnidirectional in transmitting and receiving and has a depth rating of 2500 m. This little transducer is perfect for both transmitting high-frequency high power signals and receiving over a wide frequency band. Applications include marine mammal observation, active/passive sonar, and underwater communications.



### CHARACTERISTICS

#### PHYSICAL:

Maximum Operating Depth	2500 m
Mass	.5 Kg
Diameter	67 mm
Storage Temperatures	-40°C to +70°C
Operating Temperatures	0°C to +35°C
Connector Type	Subconn 0M3M
Locking Sleeve	Subconn DLSA-F

#### ACOUSTIC:

Resonance Frequency	27 kHz
Maximum Transmitted Voltage Response	149 dB re $\mu\text{Pa}/\text{V}$ @ 1m
Maximum SPL	204 dB re 1 $\mu\text{Pa}$ @ 1 m
Maximum Drive Voltage	600 Vrms
Transmitting Range	1kHz-100kHz
Receiving Range	1kHz-50kHz
Directivity	Omni-Directional
Capacitance	37 nF
Cavitation Depth at 204 dB re $\mu\text{Pa}$ @ 1 m	60 Meters

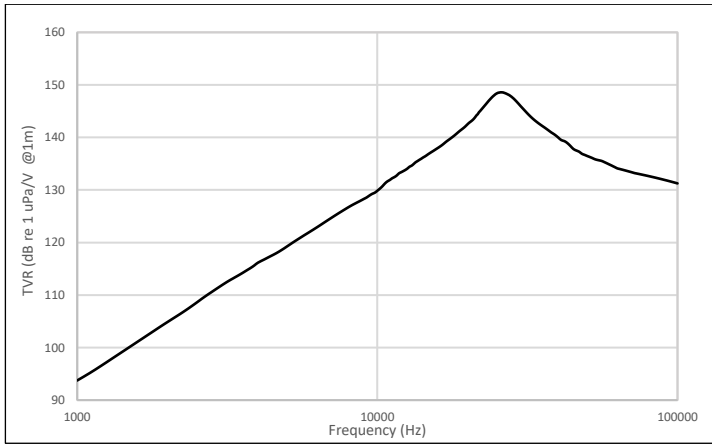


Figure 1: Transmit Voltage Response for M18C-2.5

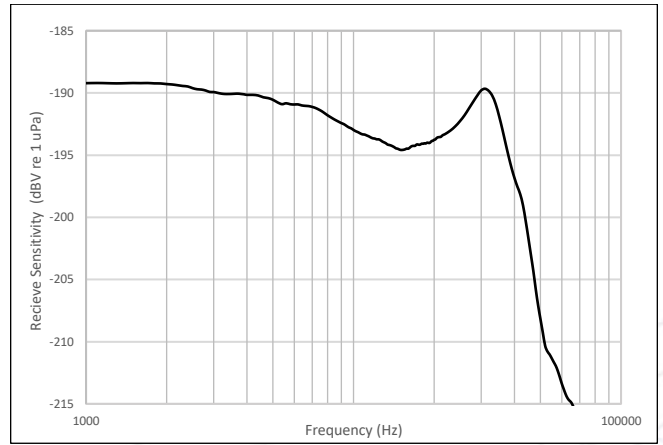


Figure 2: Receive Sensitivity Plot for M18C-2.5

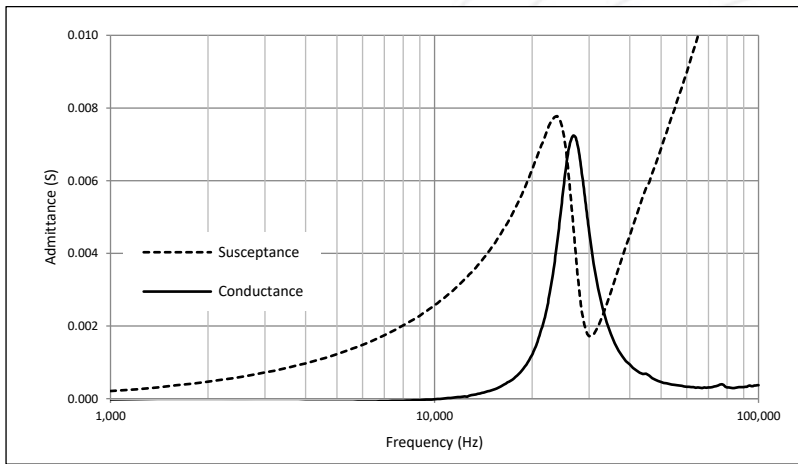


Figure 3: Admittance Plot for M18C-2.5

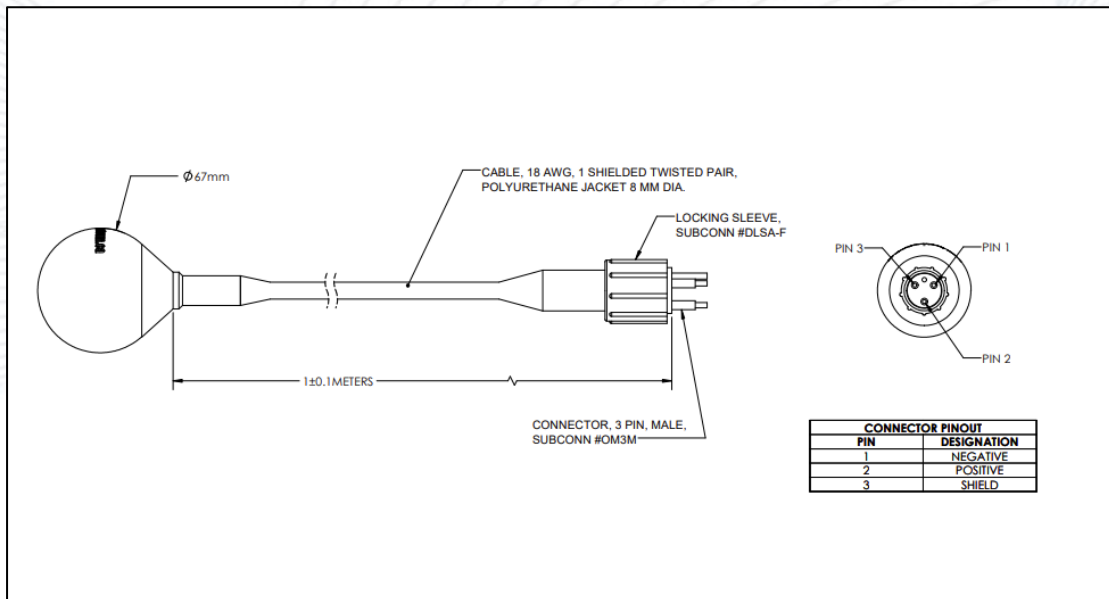


Figure 4: Dimensions of the M18C-2.5 with labeled pinout