



M18C-6.0 SPECIFICATIONS

M18C-6.0 SPHERE

OVERVIEW

The M18C-6.0 is a 6" diameter spherical transducer. Like all 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

PHYSICAL:

Maximum Operating Depth	2500 Meters
Mass	5.5 Kg
Diameter	160 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	12 kHz
Maximum Transmitted Voltage Response	148 dB re 1 μ Pa/V @ 1 m
Maximum SPL	204 dB re 1 μ Pa @ 1 m
Maximum Drive Voltage	600 Vrms
Transmitting Range	1kHz-30kHz
Receiving Range	1kHz-20 kHz
Directivity	Omnidirectional
Capacitance	72 nF
Cavitation Depth at 204 dB re μ Pa	20 Meters

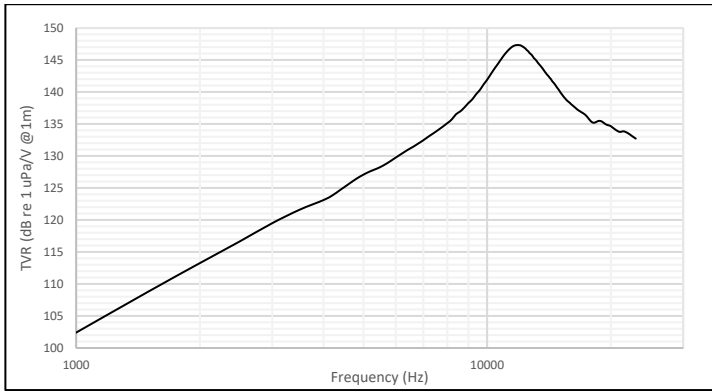


Figure 1: Transmit Voltage Response for M18C-6.0

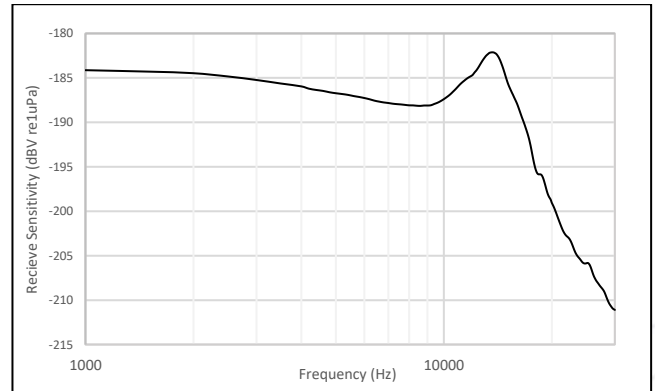


Figure 2: Receive Sensitivity Plot for M18C-6.0

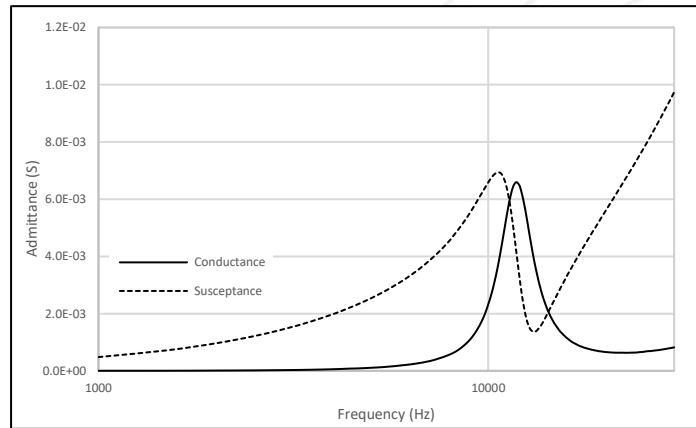


Figure 3: Admittance Plot for M18C-6.0

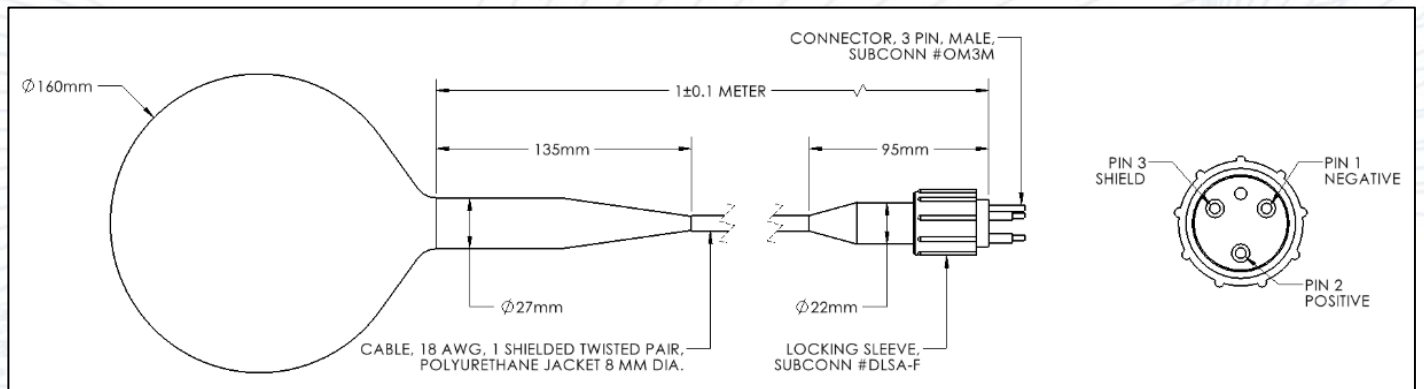


Figure 4: Dimensions of the M18C-6.0 Sphere with labeled pinout