GeoSpectrum Technologies Inc
Customizing Detection

M27-942 SPECIFICATIONS

M27-942 COMMS Transducer

OVERVIEW

The M27-942 is a transducer ideal for use as a beacon, transponder, or in other communication systems. The performance and mounting interface of the M27-942 is similar to the ITC 3013. These transducers are mountable, directional, and good from mid to high frequencies.

CHARACTERISTICS

PHYSICAL:

Maximum Operating Depth	6000 Meters*
Weight in Air	1.4 Kg
Storage Temperatures	-40°C to +70°C
Operating Temperatures	0°C to +35°C
Connector	Individual Solder Pins
End-Cap Style	Titanium, O-ring seal, exposed solder terminations (Anodized Aluminum 6061 available, 1500m depth rating, mounted)

ACOUSTIC:

Frequency Band	8-16 kHz
TVR in Band	>130 dB re 1 µPa/V @ 1 m
Maximum Drive Voltage	1000 Vrms
Maximum SPL	197 dB re 1 µPa @ 1 m
Beam Pattern	Hemispherical
Capacitance	14 nF
Cavitation Depth at 197 dB re µPa @ 1 m	80 Meters

10 Akerley Boulevard, Unit 19,
Dartmouth, Nova Scotia
Canada B3B 1J4

www.geospectrum.ca
sales@geospectrum.ca
+1 (902) 406-4111

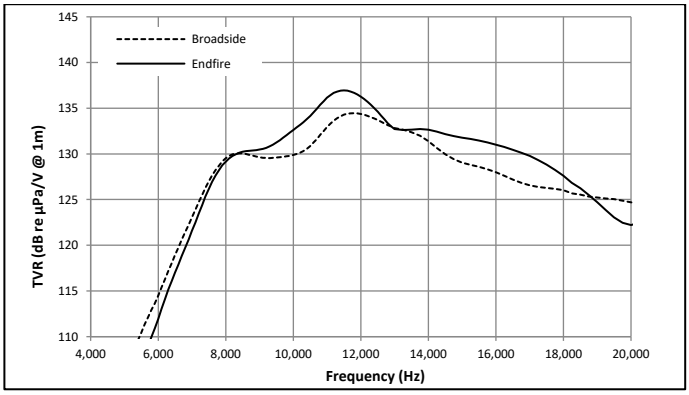

Figure 1: Transmit Voltage Response for M27-942

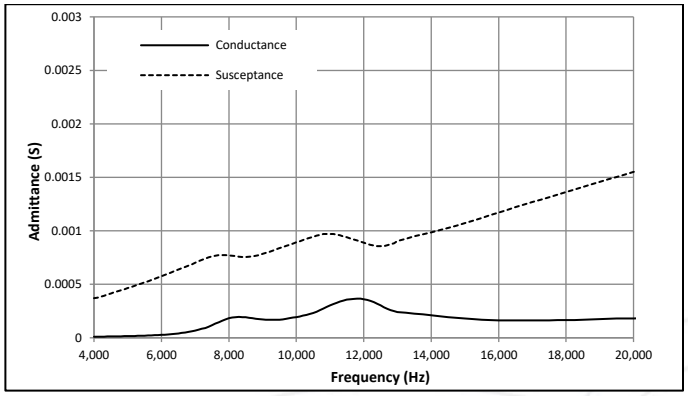

Figure 2: Admittance Plot for M27-942

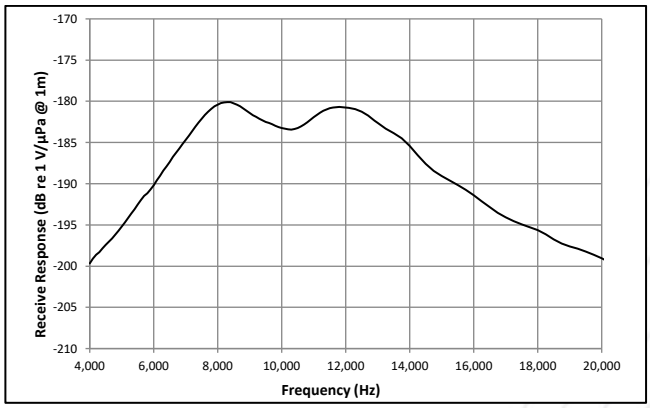

Figure 3: Receive Response for M27-942

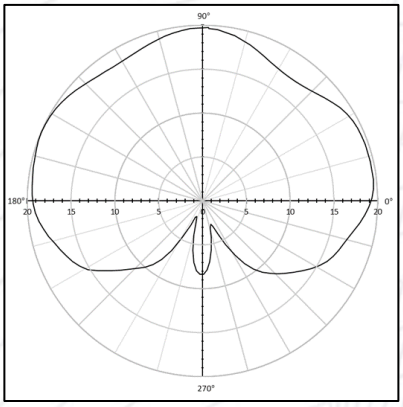

Figure 4: Beam Pattern for M27-942 at 12kHz

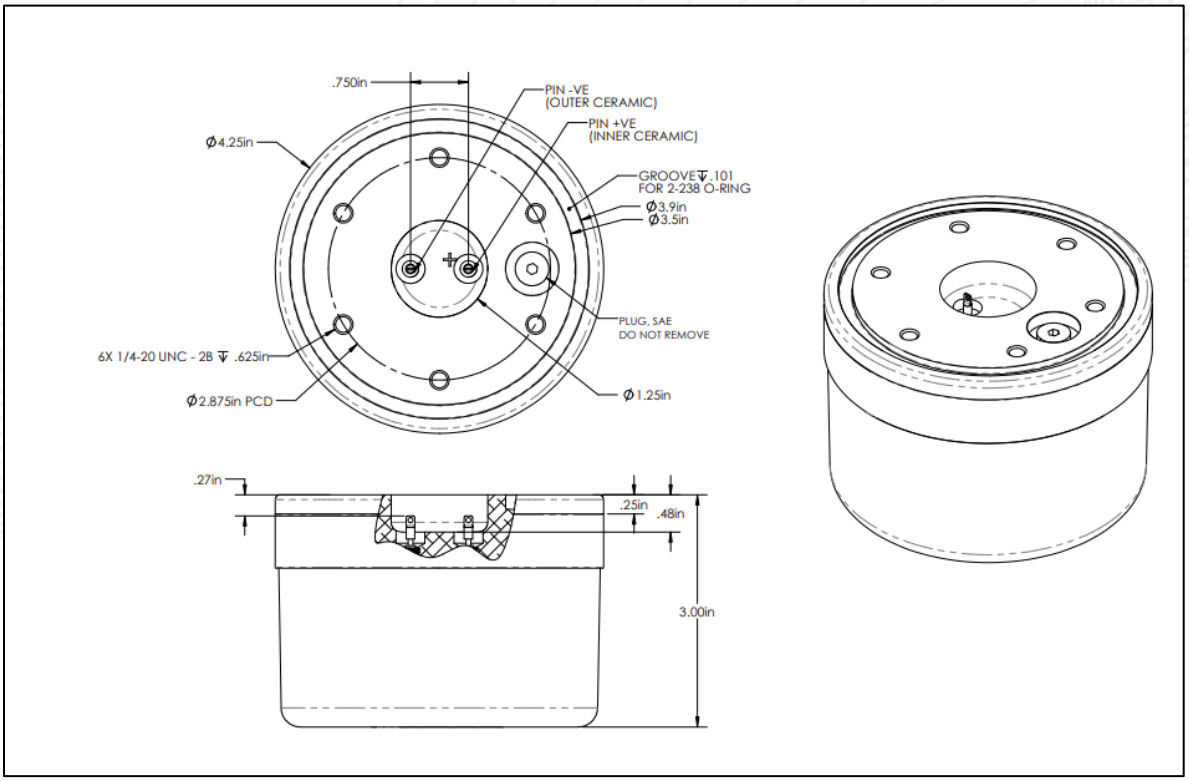

Figure 5: Dimensions of the M27-942 with labeled pin out