



SP-M21-070-5000 R1 SPECIFICATIONS

M21-070-5000 Bender

OVERVIEW

The M21-070-5000 is a flexural disc projector belonging to the M21 bender family.

Like all of M21 products, it is omnidirectional, and can produce moderate power over a wide frequency band, or produce high power near resonance. M21s can also be used in a stack to produce greater power and bandwidth at lower frequencies, or in conventional arrays to produce a directive, high-power source.



CHARACTERISTICS

PHYSICAL:

Maximum Operating Depth	700 Meters
Mass	0.6 Kg
Thickness	25 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	5 kHz
Maximum Transmitted Voltage Response	137 dB re 1 μ Pa/V @ 1 m
Maximum SPL	190 dB re 1 μ Pa @ 1 m
Maximum Drive Voltage	600 Vrms
Transmitting Range	1 kHz -10 kHz
Directivity	Omni-Directional
Capacitance	35 nF
Cavitation Depth at 190 dB re μ Pa @1m	25 Meters

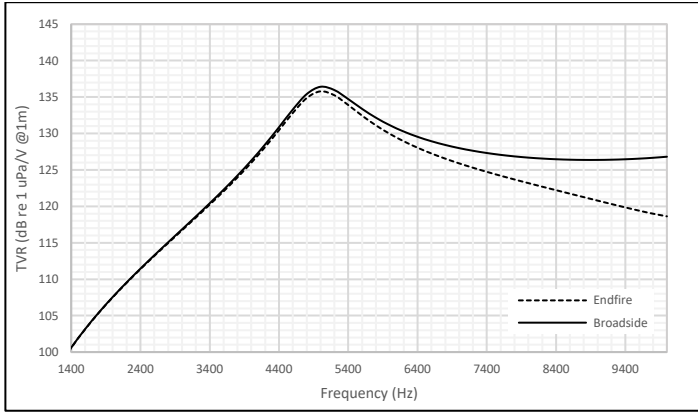


Figure 1: Transmit voltage response for M21-070-5000

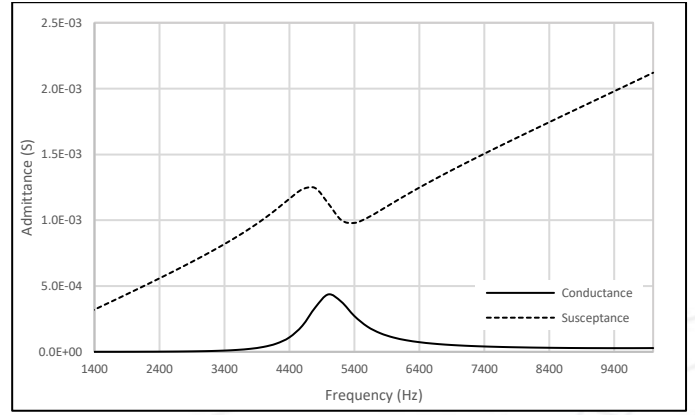


Figure 2: Admittance Plot for M21-070-5000

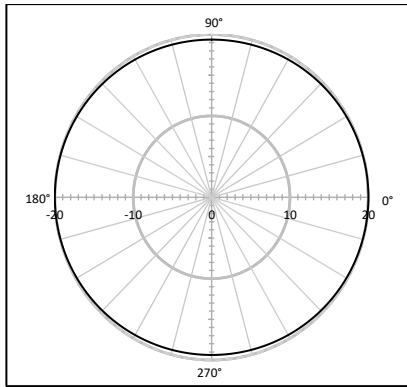


Figure 3: Typical Horizontal Beam Pattern for the M21-070-5000 at Resonance Frequency

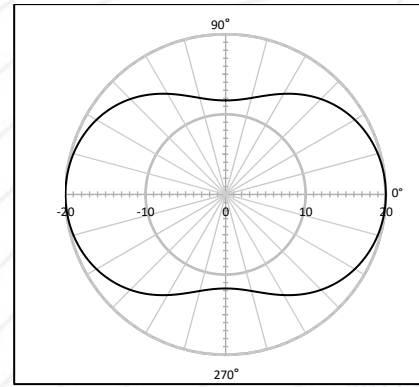


Figure 4: Typical Vertical Beam Pattern for the M21-070-5000 at 10kHz

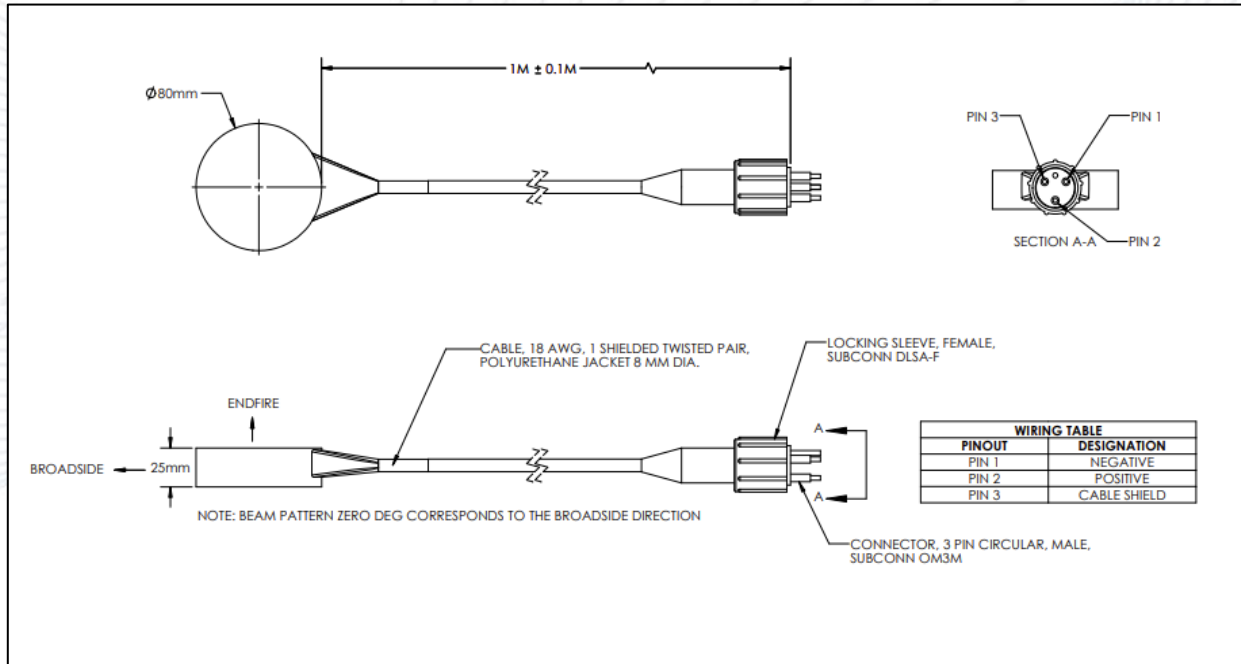


Figure 5: Dimensions of the M21-070-5000 with labeled pin out