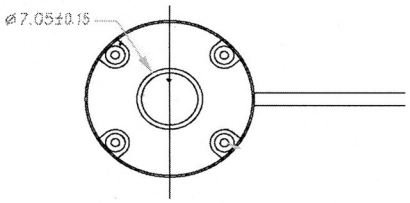
Cold Gold Electronic PVDF Film Stethoscope CG-ES

Sensitive and robust, this active stethoscope features a small metal and rubber button head with a preamped PVDF film sensor inside. Five feet of shielded cable run from the head to the power module which terminates in a mono 1/4" female output. The unit runs on a single 9 volt battery (included) and is designed to switch off when the output is unplugged.

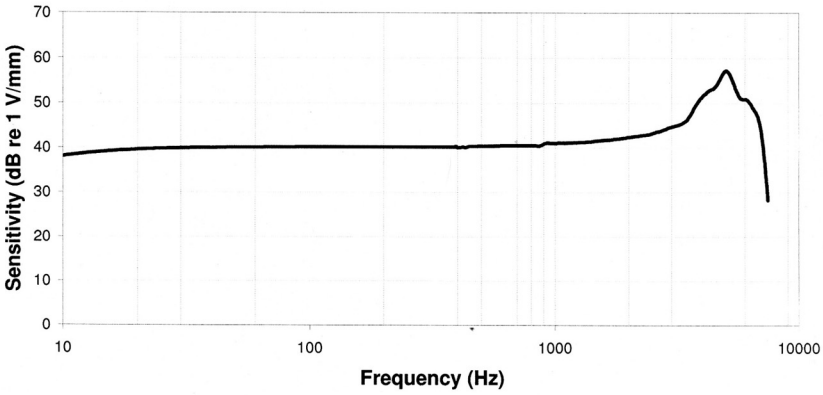
Extremely low-noise and broad bandwidth make it ideal for recording body sounds such as the heart, blood and lungs. Can also be used as a bone conducted pickup, or as normal contact microphone or vibration sensor. For most applications will require a hi-fi or guitar amplifier. Attach sensor with medical tape or stretchy gauze.

The black ABS plastic and aluminum case measures 4" by 2 1/8" by 1 5/8". The total weight of the unit with battery is less than 150g. Not certified for medical use.

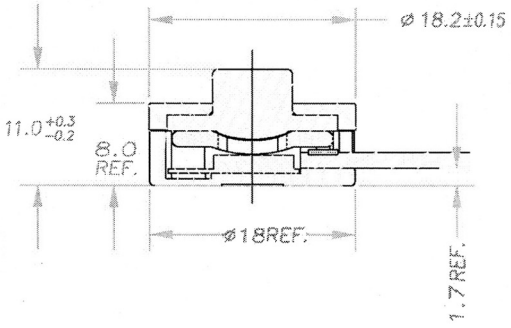
CHARACTERISTICS	Min	Typ	Max	Units
Sensitivity		40		V/mm
Lower Limiting Frequency (-3 dB)		8		Hz
Upper Limiting Frequency (+3 dB)		2.2		kHz
Resonance Frequency		5		kHz
Spring Constant		20		N/m
Electronic Noise		1		mV_{pk-pk}
Supply Voltage	4	5	30	V-DC
Supply Current		0.1		mA
Operating Temperature	+5		+60	°C
Storage Temperature	-20		+85	°C



Typical Frequency Response



The above plot shows a typical frequency response curve for a device clamped below and subjected to piston-like displacement to the face of the rubber sensing pad.



Sensor element dimensions in mm

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