

# AT4047/SV

(40) SERIES

## CARDIOID CONDENSER MICROPHONE



- Transformer-coupled output and a specially tuned element provide warm sonic characteristics reminiscent of early F.E.T. studio microphone designs
- Exceptionally wide dynamic range, low self-noise and high SPL capability for maximum versatility
- Dual-diaphragm capsule design maintains precise cardioid pattern definition across the full frequency range of the microphone
- Precision-machined, nickel-plated brass, acoustic element baffle provides enhanced element stability and optimal sensitivity
- State-of-the-art surface-mount electronics ensure compliance with A-T's stringent consistency and reliability standards

The AT4047/SV is intended for use in professional applications where remote power is available. It requires 48V DC phantom power, which may be provided by a mixer or console, or by a separate, in-line source such as the Audio-Technica AT8801 single-channel or AT8506 four-channel phantom power supplies.

Output from the microphone's XLRM-type connector is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot" – positive acoustic pressure produces positive voltage at Pin 2.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

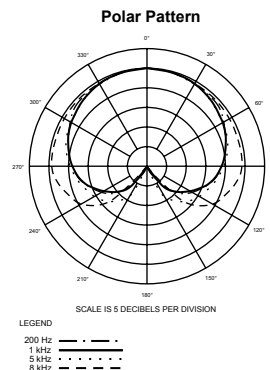
An integral 80 Hz hi-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the microphone's sensitivity to popping in close vocal use. It also reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically-coupled vibrations.

In use, secure the cable to the mic stand or boom, leaving a slack loop at the mic. This will ensure the most effective shock isolation and reduce the possibility of accidentally pulling the microphone out of its mount.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 43°C for extended periods. Extremely high humidity should also be avoided.

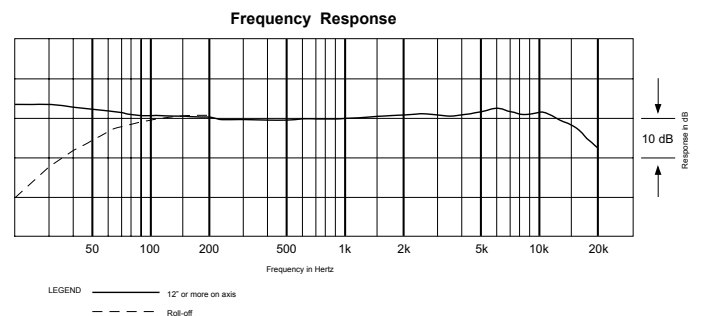
### SPECIFICATIONS

ELEMENT	Externally polarized (DC bias) condenser
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	20-18,000 Hz
OPEN CIRCUIT SENSITIVITY	-35 dB (17.7 mV) re 1V at 1 Pa
IMPEDANCE	250 ohms
MAXIMUM INPUT SOUND LEVEL	149 dB SPL, 1 kHz at 1% T.H.D. 156 dB SPL, with 10 dB pad (normal)
NOISE	9 dB SPL
DYNAMIC RANGE (typical)	140 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO	85 dB, 1 kHz at 1Pa
LOW FREQUENCY ROLL-OFF	80 Hz, 12 dB/octave
PHANTOM POWER REQUIREMENTS	48V DC, 3.0 mA typical
SWITCHES	Flat, roll-off; 10 dB pad (nominal)
WEIGHT (less accessories)	410 g
DIMENSIONS	170.0 mm - long, 53.4 mm - maximum body diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8449/SV shock mount for 5/8"-27 threaded stands; microphone dust cover; protective carrying case



#### Optional Accessories:

- AT8506 four-channel 48V phantom power supply (AC powered).
- AT8801/EU single-channel 48V phantom power supply (AC powered).



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## 心形指向性电容话筒



- 变压器耦合输出和经调谐的收音元件提供温暖的声音特质，让人回忆到早期的FET录音话筒设计。
- 宽广的动态范围，低噪声和有多功能的高声压级特性。
- 双震膜收音设计，能在话筒的整个频率范围内保持精确的心形指向性收音。
- 以机械加工的电镀镍黄铜外壳，为声学元件隔板提供了增强的收音头稳定性和最佳的灵敏度。
- 利用电子元件表面焊接技术，符合军工严格的一致性和可靠性标准。

AT4047/SV需要使用48V幻象供电工作，可使用专业调音台上的幻象电源，也可以使用铁三角的AT8801单通道或AT8506四通道幻象电源供电器作独立供电。

低阻抗的平衡音频输出，话筒音频信号最终以卡农公头的2号及3号针脚输出，而1号针脚则为地线(屏蔽)连接。输出相位将以正相位电平设于2号针脚上。

为润免出现相位相互抵消而失真的情况，所有话筒连接时，接线必需以1-1, 2-2, 3-3型式把针脚连接。

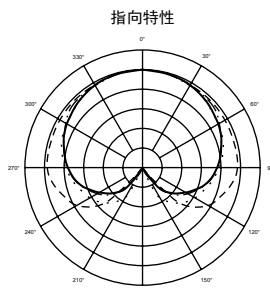
内置高通滤波电路，可轻易由平直的频率响应，开启为于80Hz以下衰减的收音效果，应用高通滤波器可减低话筒在近距离讲话收音时的喷气声，并可减低收音环境中低频噪声(如外间汽车引擎声，空调系统的风声等)，房间中的回声及机械性的震动声。

在使用时，请将导电固定在话筒支架或吊杆上，并与话筒留下松弛的空间。这将能确保话筒获得最有效的隔离和减少话筒不小心被拉出支架的可能。

把话筒暴露于高温中可能导致输出电平逐渐及永久性减弱，应避免将话筒留在日晒的地方或长时间置于温度超过43°C的地方，而极高湿度也应避免。

### 技术指标

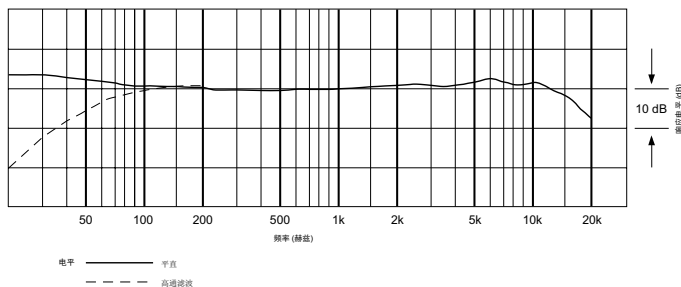
收音头	直流偏压型电容式
指向特性	心形指向性
频率响应	20-18,000 Hz
开通灵敏度	-35 dB (17.7 mV) 以 1V 于 1 Pa
输出阻抗	250 欧姆
最大承受声压	149 dB, 1 kHz 于 1% T.H.D. 159 dB, 于 10 dB 衰减
噪声	9 dB 声压
动态范围 (典型)	140 dB, 1 kHz 于最高声压
讯噪比	85 dB, 1 kHz 于 1Pa
高通滤波	80 Hz, 12 dB/octave
幻象供电	直流 48V, 耗电 3.0 mA 典型
开关	平直-高通滤波; 10 dB 衰减
重量	410 克
外形尺寸	170.0 mm - 长度, 53.4 mm - 机体最大直径
输出连接器	内置 XLRM-3针卡农公头
附属品	AT8449/SV 防震架带 5/8"-27接头, 保护袋, 话筒防尘罩。



### 选择配件:

AT8506 四通48V幻象供电器 (交流供电)。

AT8801/EU 单通道48V幻象供电器 (交流供电)。



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