

AT4033aSM

Cardioid Condenser Microphone



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The side-address AT4033aSM offers low-noise, symmetrical, transformerless circuitry that results in exceptional transient response and clean output signals. A strong up-front presence characterizes the sonic signature of this 40 Series pro-audio classic. The AT4033aSM's 80Hz high-pass filter easily switches between flat frequency response and a low-end roll-off that diminishes ambient noise and popping with closely-miked vocals.

- A strong up-front presence characterizes the sonic signature of this versatile pro-audio classic
- Transformerless circuitry virtually eliminates low-frequency distortion and provides superior correlation of high-speed transients
- Precision-machined, nickel-plated brass, acoustic element baffle provides enhanced element stability and optimal sensitivity
- The 2-micron-thick, vapor-deposited gold diaphragm undergoes a five-step aging process so that the optimum characteristics achieved remain constant over years of use
- Floating-construction capsule assembly provides isolation from noise and vibration
- Open acoustical environment of the symmetrical housing assembly minimizes unwanted internal reflections
- State-of-the-art surface-mount electronics ensure compliance with A-T's stringent consistency and reliability standards
- Custom shock mount provides superior isolation

SPECIFICATIONS

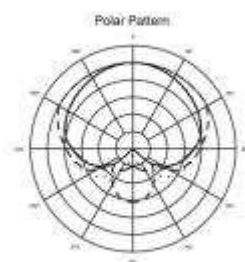
ELEMENT	Fixed-charge back plate, permanently polarized condenser
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	30-20,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY	-32 dB (25.1 mV) re 1V at 1 Pa
IMPEDANCE	100 ohms
MAXIMUM INPUT SOUND LEVEL	145 dB SPL, 1 kHz at 1% T.H.D.; 155 dB SPL, with 10 dB pad (nominal)
NOISE	17 dB SPL
DYNAMIC RANGE (TYPICAL)	128 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO	77 dB, 1 kHz at 1 Pa

PHANTOM POWER REQUIREMENTS	48V DC, 3.2 mA typical
SWITCHES	Flat, roll-off; 10 dB pad (nominal)
WEIGHT	13.4 oz (380 g)
DIMENSIONS	6.69" (170.0 mm) long, 2.10" (53.4 mm) maximum body diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8449 shock mount for 5/8"-27 threaded stands; protective carrying case
AUDIO-TECHNICA CASE STYLE	R1

SPECIFICATION GRAPHS

Click on the chart to view the larger image

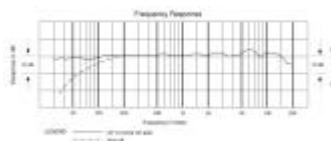
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POLAR PATTERN

LEGEND:
 0dB (0) ———— 0dB (0)
 -3dB (-3) ———— -3dB (-3)
 -6dB (-6) ———— -6dB (-6)
 -9dB (-9) ———— -9dB (-9)

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FREQUENCY RESPONSE