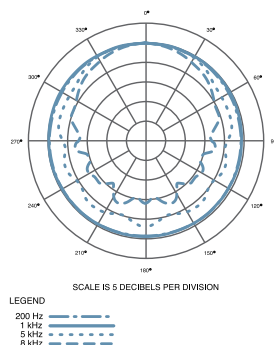
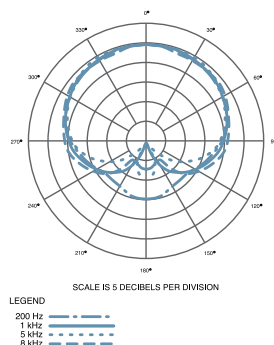


40 series

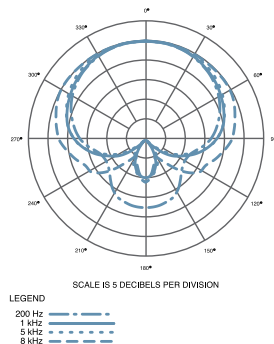
Omnidirectional



Cardioid



Hypercardioid



40 series precision studio microphones (PC 345-MC 210)

Those versatile modular microphones may be used with confidence in a wide variety of professional miking applications. Featuring direct-coupled balanced outputs for clean signals in high-output conditions, the microphone is totally free of the distortion associated with conventional transformer-coupled outputs. And its fast response to transients contributes to the open, transparent reproduction of even the most difficult-to-capture instruments. The microphone is fully RoHS-compliant – free from all substances specified in the EU directive on the reduction of hazardous substances (RoHS).

Each microphone consists of two modular subassemblies: an **AT4900b-48** body and a corresponding condenser head capsule (**AT4049b-EL** omni, **AT4051b-EL** cardioid and **AT4053b-EL** hypercardioid). All head capsules interchangeable and available separately.

- Specially engineered to meet the most critical acoustic requirements of professional recording, broadcast and sound reinforcement
- Direct-coupled, balanced output results in a clean signal even under high-output conditions
- Transformerless circuitry virtually eliminates low-frequency distortion and provides superior correlation of high-speed transients
- Switchable 80 Hz hi-pass filter and 10 dB pad
- Rugged turned-brass microphone housing for enduring dependability
- State-of-the-art design and manufacturing techniques ensure compliance with A-T's stringent consistency and reliability standards

MICROPHONE COMPONENTS

AT4900B-48

£ 269.00 Electronic / body only

AT4049B-EL

£ 179.00 Omnidirectional element only

AT4051B-EL

£ 179.00 Cardioid element only

AT4053B-EL

£ 179.00 Hypercardioid element only



40 series precision studio microphones (PC 345-MC 210)

MODULAR MICROPHONES

AT4049B

£ 449.00 Omnidirectional condenser microphone
Recommended for professional recording and critical applications in broadcast.
• Omnidirectional polar pattern provides maximum ambient pickup

AT4051B

£ 449.00 Cardioid condenser microphone
Ideal for professional recording and critical applications in broadcast
• High front-to-back rejection ratio-cardioid polar pattern improves isolation of desired sound source

AT4053B

£ 449.00 Hypercardioid condenser microphone
• Hypercardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source

Specifications	AT4049B	AT4051B	AT4053B
Element	Externally polarized (DC bias) condenser	Externally polarized (DC bias) condenser	Externally polarized (DC bias) condenser
Polar Pattern	Omnidirectional	Cardioid	Hypercardioid
Frequency Response	20-20,000 Hz	20-20,000 Hz	20-20,000 Hz
Low Frequency Roll-Off	80 Hz, 12 dB/octave	80 Hz, 12 dB/octave	80 Hz, 12 dB/octave
Open Circuit Sensitivity	-34 dB (19.9 mV) re 1V at 1 Pa*	-34 dB (19.9 mV) re 1V at 1 Pa*	-34 dB (19.9 mV) re 1V at 1 Pa*
Impedance	50 ohms	50 ohms	50 ohms
Max. Input Sound Level (nominal)	145 dB SPL, 1 kHz at 1% T.H.D.; 155 dB SPL, with 10 dB pad (nominal)	145 dB SPL, 1 kHz at 1% T.H.D.; 155 dB SPL, with 10 dB pad	145 dB SPL, 1 kHz at 1% T.H.D.; 155 dB SPL, with 10 dB pad
Noise	16 dB SPL	16 dB SPL	16 dB SPL
Dynamic Range (typical)	129 dB, 1 kHz at Max SPL	129 dB, 1 kHz at Max SPL	129 dB, 1 kHz at Max SPL
Signal-to-Noise Ratio	78 dB, 1 kHz at 1 Pa*	78 dB, 1 kHz at 1 Pa*	78 dB, 1 kHz at 1 Pa*
Phantom Power Requirements	48V DC, 4.8 mA typical	48V DC, 4.8 mA typical	48V DC, 4.8 mA typical
Switches (nominal)	Flat, roll-off; 10 dB pad (nominal)	Flat, roll-off; 10 dB pad	Flat, roll-off; 10 dB pad
Weight (less accessories)	130 g (4.6 oz)	126 g (4.4 oz)	127 g (4.5 oz)
Dimensions	155.0 mm long, 21.0 mm maximum body Ø	155.0 mm long, 21.0 mm maximum body Ø	155.0 mm long, 21.0 mm maximum body Ø
Output Connector	Integral 3-pin XLRM-type	Integral 3-pin XLRM-type	Integral 3-pin XLRM-type
Optional Interchangeable Elements	AT4051b-EL (cardioid); AT4053b-EL (hypercardioid)	AT4049b-EL (omnidirectional); AT4053b-EL (hypercardioid)	AT4049b-EL (omnidirectional); AT4051b-EL (cardioid)
Accessories Furnished	AT8405a stand clamp for 5/8"-27 threaded stands; windscreen; protective carrying case	AT8405a stand clamp for 5/8"-27 threaded stands; windscreen; protective carrying case	AT8405a stand clamp for 5/8"-27 threaded stands; windscreen; protective carrying case

*1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

40 series

