

# Product Specifications

## SM86 Cardioid Condenser Microphone

### Overview

The SM86 is an award-winning, rugged cardioid condenser microphone with an extended high frequency response. Constructed with a three-point shock mount and a two-stage internal pop filter, the tailored frequency response of the SM86 delivers consistently smooth reproduction of lead vocals, even under the most extreme performance conditions.

### Features

- Condenser cartridge for studio quality sound
- Tailored frequency response for a clear reproduction of vocals
- Rugged construction withstands the rigors of touring sound
- Cardioid polar pattern minimizes unwanted background noise
- Excellent choice for stage monitors and personal monitors
- Built-in three-point shock mount minimizes handling noise
- Two-stage "pop" filter reduces wind and breath noise

### Available Models

SM86-LC	Includes Stand Adapter and Zippered Pouch
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### Specifications

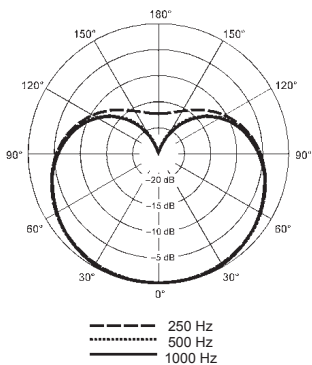
Type	Condenser
Frequency Response	50 to 18,000 Hz
Polar Pattern	Cardioid
Sensitivity (at 1,000 Hz)	Open Circuit Voltage: -50 dBV/Pa (3.15 mV) (1 Pa = 94 dB SPL)
Impedance	150 Ohms at 1 kHz Recommended minimum load impedance: 600 Ohms
Output Clipping Level	1000 Ohm Load at 1,000 Hz: +3 dBV (1.41 V)
Maximum SPL (at 1,000 Hz)	1000 ohm load (1% THD): 147 dB
Self-Noise	23 dB typical, A-weighted
Dynamic Range (1000 ohms)	124 dB (maximum SPL to A-weighted noise level)
Signal-to-Noise Ratio	71 dB at 94 dB SPL (IEC 651)* *S/N ratio is difference between 94 dB SPL and equivalent SPL of self-noise A-weighted.
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of the output connector.
Power Requirements	11 to 52 Vdc, 5.2 mA
Case	Dark gray, enamel-painted, die-cast with a stainless steel grille
Connector	Three-pin professional audio connector (male XLR type)
Net Weight	284 grams (10 oz)
Dimensions	183 mm (6-3/16 in.) L x 49 mm (1-1/4 in.) W at the widest point



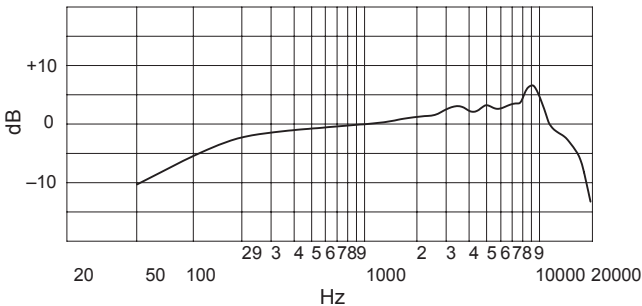
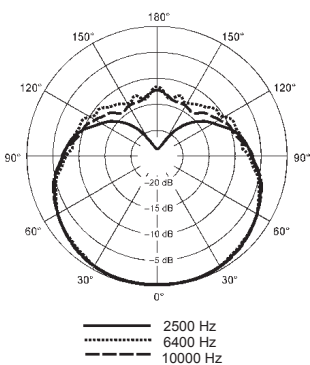
SM86

### Optional Accessories and Replacement Parts

A25D	Microphone Clip	A55M	Shock Stopper Clip	A55HM	Shock Stopper Half Clip
A85WS	Microphone Windscreen	RPM226	Replacement Grille		



Polar Pattern



Frequency Response

**SHURE**  
LEGENDARY  
PERFORMANCE™