

Product Specifications

Beta® 87A Supercardioid Condenser Vocal Microphone

Overview

The Shure Beta 87A is a precision-engineered supercardioid condenser vocal microphone with an exceptionally smooth frequency response. Built to withstand extreme sound pressure levels, the Beta 87A is ideal for professional sound reinforcement and studio recording applications - and constructed to withstand the rigors of touring.

Features

- Premier live performance microphone with Shure quality, ruggedness, and reliability
- Uniform supercardioid pick-up pattern for maximum gain before feedback and superior rejection of off-axis sound
- Smooth, wide frequency response with gradual presence rise and controlled proximity effect tailored for vocals
- Advanced cartridge shock mount system absorbs mechanical shock and minimizes handling noise
- Dent-resistant steel mesh grille and enamel coated metal alloy construction resist wear and abuse
- Effective built-in pop filter reduces undesirable wind and breath noise
- Very low susceptibility to RF and electromagnetic hum

Available Models

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| Beta 87A | Supercardioid Condenser Vocal Microphone |
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Beta 87A

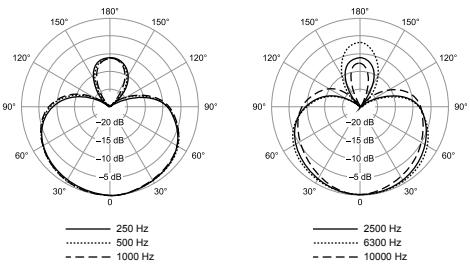
Specifications

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|---|---|
| Cartridge Type | Electret Condenser |
| Frequency Response | 20 to 20,000 Hz |
| Polar Pattern | Supercardioid |
| Output Impedance | 150 Ω |
| Sensitivity | -52.5 dBV/Pa (2 mV) 1 Pascal=94 dB SPL |
| Maximum SPL (1 kHz at 1% THD, 1 kΩ load) | 140.5 dB |
| Signal-to-Noise Ratio (referenced at 94 dB SPL at 1 kHz) | 70.5 dB S/N ratio is difference between 94 dB SPL and equivalent SPL of self noise, A-weighted |
| Dynamic Range (at 1 kHz, 1 kΩ load) | 117 dB |
| Clipping Level (1 kHz at 0.25% THD, 1 kΩ load) | -6 dBV (0.5 V) |
| Self Noise (typical, equivalent SPL, A-weighted) | 23.5 dB typical |
| Polarity | Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3 |
| Weight | Net: 0.207 kg (0.475 lbs) |
| Connector | Three-pin professional audio (XLR), male |
| Power Requirements | 11 to 52 Vdc phantom (1.2 mA) |

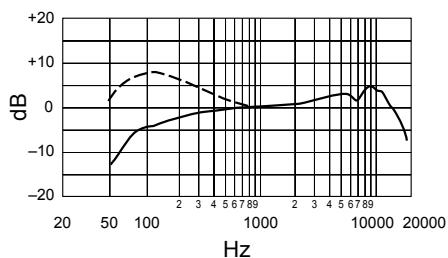
Accessories and Replacement Parts

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|-------|------------------------|------|-----------------------|
| RK312 | Replacement grille | R193 | Replacement cartridge |
| A85WS | Microphone windscreens | A25D | Microphone clip |

Polar Pattern



Frequency Response



SHURE®

LEGENDARY
PERFORMANCE™