

Product Specifications

Beta® 87C Cardioid Condenser Vocal Microphone

Overview

The Shure Beta 87C vocal microphone is precision-engineered to deliver an extremely smooth, extended high-end frequency response in a cardioid condenser design. The warm, natural sound creates an ideal environment for personal monitoring, with excellent rear rejection.

Features

- Premier live performance microphone with Shure quality, ruggedness, and reliability
- Uniform cardioid pick-up pattern for maximum gain before feedback and excellent rejection of off-axis sound
- Smooth, wide frequency response with slight presence rise and controlled proximity effect tailored for vocals
- Advanced cartridge shock mount system absorbs mechanical shock and minimizes handling noise
- Very low susceptibility to RF and electromagnetic hum
- 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

Available Models

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| BETA 87C | Cardioid Condenser Vocal Microphone |
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Specifications

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| Cartridge Type | Electret Condenser |
| Frequency Response | 50 to 16,000 Hz |
| Polar Pattern | Cardioid |
| Output Impedance | 100 Ω |
| Sensitivity <i>(at 1kHz, open circuit voltage)</i> | −51 dBV/Pa (2 mV) 1 Pascal=94 dB SPL |
| Maximum SPL <i>(1 kHz at 1% THD, 1kΩ load)</i> | 139 dB |
| Signal-to-Noise Ratio <i>(referenced at 94 dB SPL at 1 kHz)</i> | 70.5 dB <i>S/N ratio is difference between 94 dB SPL and equivalent SPL of self noise, A-weighted</i> |
| Dynamic Range <i>(at 1 kHz, 1 kΩ load)</i> | 117 dB |
| Clipping Level <i>(1 kHz at 0.25% THD, 1kΩ load)</i> | −6 dBV (0.5 V) |
| Self Noise <i>(typical, equivalent SPL, A-weighted)</i> | 22 dB typical |
| Hum Pickup <i>(typical, at 60 Hz, equivalent SPL/mOe)</i> | −5 dB |
| 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) |

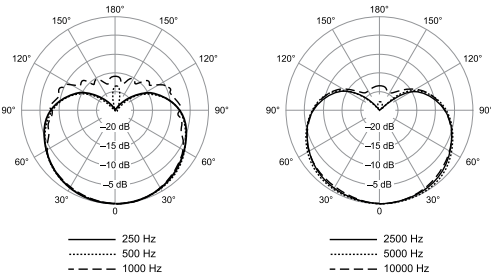


Beta 87C

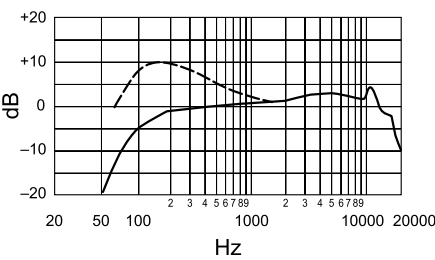
Accessories and Replacement Parts

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|-------|-----------------------|------|-----------------|
| RK312 | Replacement grille | A25D | Microphone clip |
| A85WS | Microphone windscreen | | |

Polar Pattern



Frequency Response



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