Product Specifications

Beta 87C Cardioid Condenser Vocal Microphone

BETA 87C

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

BETA 87C	Cardioid Condenser Vocal Microphone

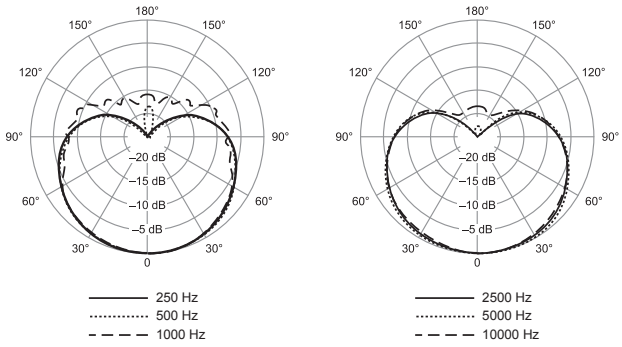
Specifications

Cartridge Type	Electret Condenser
Frequency Response	50 to 16,000 Hz
Polar Pattern	Cardioid
Output Impedance	100 ohms
Sensitivity (at 1kHz, open circuit voltage)	–51 dBV/Pa (2 mV) 1 Pascal=94 dB SPL
Maximum SPL (1 kHz at 1% THD, 1k ohms load)	139 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 k ohms load)	117 dB
Clipping Level (1 kHz at 0.25% THD, 1k ohms load)	–6 dBV (0.5 V)
Self Noise (typical, equivalent SPL, A-weighted)	22 dB typical
Hum Pickup (typical, at 60 Hz, equivalent SPL/mOe)	-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)

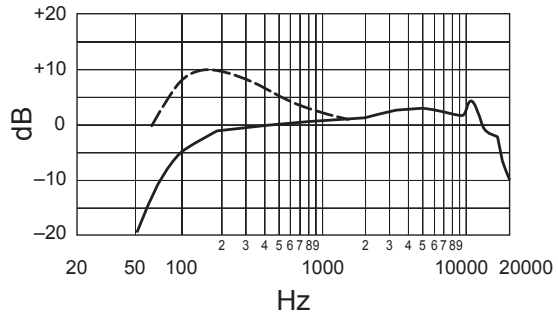
Furnished Accessories

A25D	Swivel Adapter	**95A2314**	Carrying/Storage Bag

Polar Pattern



Frequency Response



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