

# Beta 27 Supercardioid Condenser Microphone

## Overview

The Beta 27 side-address condenser microphone is precision engineered for professional sound reinforcement. Its flat frequency response and low self noise provide unerring performance in demanding environments. A tight supercardioid pattern insures high gain-before-feedback and maximum isolation from other sound sources.

## Features

- Supercardioid polar pattern specifically targets the sound source consistently with greatly minimized bleed from off-axis sound sources.
- Tailored for superior transient response from a low-mass, 1" externally-biased, ultra-thin 24 Karat gold-layered Mylar® diaphragm.
- Flat, neutral frequency response for natural reproduction on stage or in the studio.
- 3-position switchable low-frequency filter helps reduce unwanted background noise or counteract proximity effect for consistent, extended low-end.
- -15 dB switchable attenuator handles extremely high SPLs with ease.
- Premium electronic components and gold-plated internal and external connectors.
- Internal pop filter with three separate mesh layers reduces wind and breath noise.

## Available Models

<b>Beta 27</b>	Includes Stand Adapter and Padded Zippered Pouch
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## Specifications

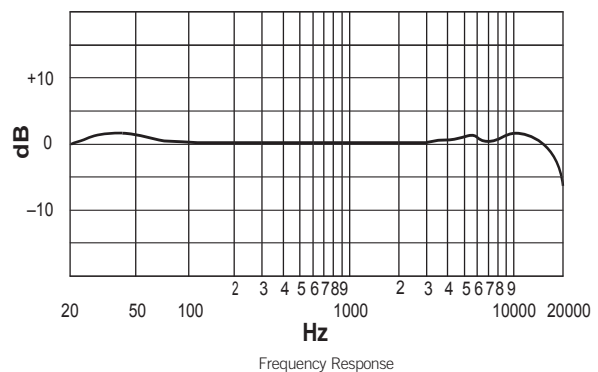
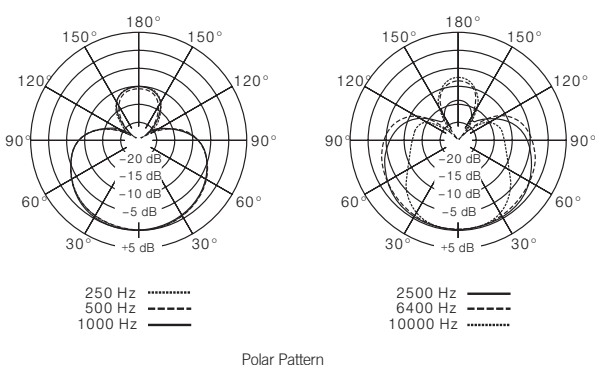
<b>Type</b>	Condenser (externally biased)
<b>Frequency Response</b>	20 Hz to 20 kHz
<b>Polar Pattern</b>	Supercardioid
<b>Impedance</b>	160 Ω
<b>Sensitivity</b> (at 1 kHz, open circuit voltage)	-37 dBV/Pa (14, 13 mV/Pa) 1 Pascal = 94 dB SPL
<b>Maximum SPL</b> (1 kHz at 1% THD)	1000 Ω load: 134 dB (148 dB, Pad on) 2500 Ω load: 140 dB (154 dB, Pad on)
<b>Signal-to-Noise Ratio</b> (referenced at 94 dB SPL at 1 kHz)	85.5 dB S/N ratio is difference between 94 dB SPL and equivalent SPL of self noise, A-weighted
<b>Dynamic Range</b> (at 1 kHz)	1000 Ω load: 125.5 dB 2500 Ω load: 131.5 dB
<b>Clipping Level</b> (20Hz-20 kHz at 1% THD)	1000 Ω load: 2.0 dBV 2500 Ω load: 8.5 dBV THD of microphone preamplifier when applied input signal is equivalent to cartridge output at specified SPL
<b>Self Noise</b> (typical, equivalent SPL, A-weighted)	8.5 dB
<b>Polarity</b>	Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3
<b>Weight</b>	Net: 428 g
<b>Switch</b>	Attenuator: -15 dB Low Frequency Response: flat; -6 dB/octave below 115 Hz; -18 dB/octave below 80 Hz
<b>Connector</b>	Three-pin professional audio (XLR), male
<b>Power Requirements</b>	48 Vdc phantom, 5.6 mA



Beta 27

## Accessories and Replacement Parts

<b>A32M</b>	ShureLock® Black Swivel Adapter	<b>A27ZB</b>	Zippered Pouch	<b>A32WS</b>	Windscreen
<b>A27SM</b>	ShureLock® Rubber Isolated Shock Mount	<b>PS-6</b>	Popper Stopper™		



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