# **Product Specifications**

## **Beta 27 Supercardioid Condenser Microphone**

#### Overview

The Beta 27 side-address condenser microphone is precision engineered for professional sound reinforcement and project studio recording applications. 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**

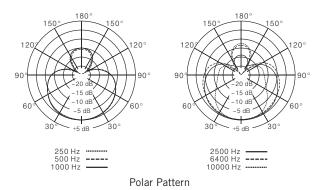
- Supercardioid polar pattern specifically targets the sound source consistently with greatly minimized bleed from off-axis sound sources
- Tailored for superior transient response from a low-mass, 1" externally-biased, ultra-thin 24 Karat gold-layered Mylar® diaphragm. Flat, neutral frequency response 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-
- -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.

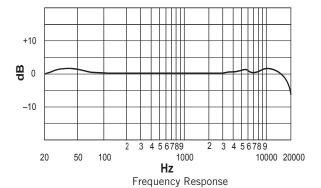
#### **Available Models**

Beta 27	Includes Stand Adapter and Padded Zippered Pouch			
Specifications				
Туре	Condenser (externally biased)			
Frequency Response	20 to 20,000 Hz			
Polar Pattern	Supercardioid			
Impedance	160			
Sensitivity (at 1 kHz, open circuit voltage)	–37 dBV/Pa 1 Pascal=94 dB SPL			
Maximum SPL (1 kHz at 1% THD)	1000 load: 134 dB (148 dB, Pad on) 2500 load: 140 dB (154 dB, Pad on)			
Signal-to-Noise Ratio (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			
Dynamic Range (at 1 kHz)	1000 load: 125.5 dB 2500 load: 131.5 dB			
Common Mode Rejection (20 Hz to 20 kHz)	> 50 dB			
Clipping Level (20Hz-20 kHz at 1% THD)	1000 load: 2.0 dBV 2500 load: 8.5 dBV THD of microphone preamplifier when applied input signal is equivalent to cartridge output at specified SPL			
Self Noise (typical, equivalent SPL, A-weighted)	8.5 dB			
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3			
Weight	Net: 428 g (15.1 oz.)			
Switch	Attenuator: -15 dB Low Frequency Response: flat; -6 dB/octave below 115 Hz; -18 dB/octave below 80 Hz			
Connector	Three-pin professional audio (XLR), male			
Power Requirements	48 Vdc phantom, 5.6 mA			

### **Accessories and Replacement Parts**

A32SM	ShureLock® Black Swivel Adapter	A27ZB	Zippered Pouch	A32WS	Windscreen
A27SM	ShureLock® Rubber Isolated Shock Mount	PS-6	Popper Stopper™		







Beta 27

