

# Product Specifications

## SM7B Cardioid Dynamic Microphone

### Overview

The SM7B is a selectable frequency response microphone that delivers warm and smooth audio in close-proximity studio and vocal applications. Optimized shielding from external electromagnetic hum, along with internal shock mounting, external windscreens and adjustable bass roll-off and mid-range emphasis response settings provide clean, consistent reproduction.

### Features

- Flat, wide-range frequency response for exceptionally clean and natural reproduction of both music and speech
- Bass rolloff and mid-range emphasis (presence boost) controls with graphic display of response setting
- Improved rejection of electromagnetic hum, optimized for shielding against broadband interference emitted by computer monitors
- Internal "air suspension" shock isolation virtually eliminates mechanical noise transmission
- Highly effective pop filter eliminates need for any add-on protection against explosive breath sounds, even for close-up vocals or narration
- Now shipping with the A7WS detachable windscreen, designed to reduce plosive sounds and gives a warmer tone for close-talk vocals
- Yoke mounting with captive stand nut for easy mounting and dismounting provides precise control of microphone position
- Classic cardioid polar pattern, uniform with frequency and symmetrical about axis, to provide maximum rejection and minimum coloration of off-axis sound
- Rugged construction and excellent cartridge protection for outstanding reliability



SM7B

### Available Models

SM7B	Includes foam windscreen, close-talk windscreen, and locking yoke mount.
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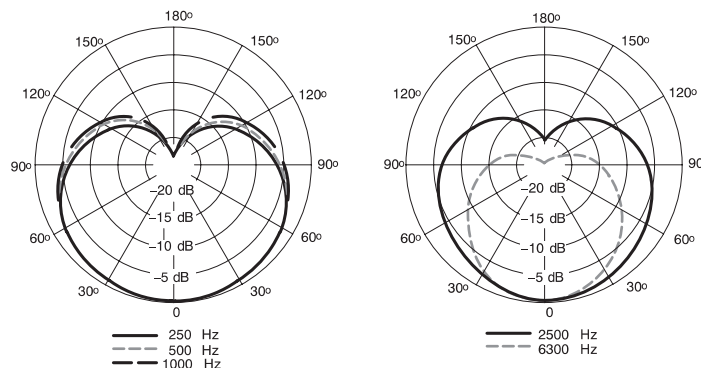
### Specifications

Type	Dynamic
Frequency Response	50 to 20,000 Hz
Polar Pattern	Cardioid
Electromagnetic Hum Sensitivity <i>(Typical, Equivalent SPL/milliOersted)</i>	60 Hz: 11 dB 500 Hz: 24 dB 1 kHz: 33 dB
Impedance	150 ohms for connection to microphone inputs rated at 19 to 300 ohms.
Output Level (at 1,000 Hz)	Open Circuit Voltage: -59.0 dB (1.12 mV) 0 dB = 1 volt per Pascal
Switches	Bass rolloff and mid-range emphasis: Slotted response selector switches.
Cartridge Shock Mount	Internal air-suspension shock and vibration isolator.
Microphone Connector	Three-pin professional audio (XLR)
Swivel Assembly	Integrated, captive nut for ease of attachment to stand, fits 5/8 in.-27 thread.
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3.
Case	Dark gray enamel aluminum and steel case with dark gray foam windscreen.
Net Weight	765.4 grams (1 lb, 11 oz)

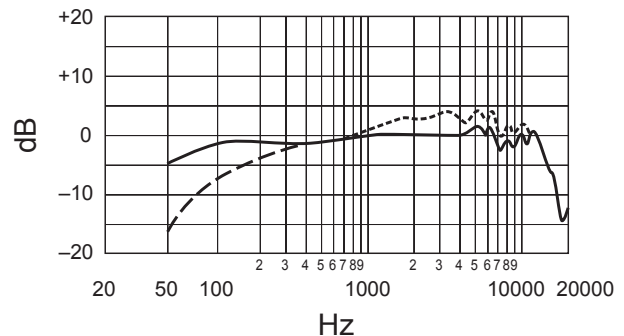
### Optional Accessories and Replacement Parts

A7WS	Large Close-Talk Windscreen	RPM106	Replacement Cartridge	537A	Desk Stand
RK345	Microphone Windscreen				

### Polar pattern



### Frequency response



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