

Product Specifications

Beta® 53 Subminiature Headworn Condenser Microphone

Overview

Shure model Beta 53 is a subminiature, electret condenser headworn microphone. It provides uncompromised sound quality and reliability with minimal visibility in applications such as broadcast, theater, and touring. Despite its small size, the microphone's condenser element delivers full, clear, and natural reproduction of speech and vocals. The microphone features a durable, low-profile wire frame headband which is fully adjustable for stability and comfort. A plastic carrying case protects the microphone and its accessories.

Features

- Omnidirectional polar pattern for minimal handling noise and flexible microphone placement
- Extended, flat frequency response provides accurate speech and vocal reproduction
- Two interchangeable protective caps for response shaping
- Foam windscreens minimize breath noise and "popping"
- Available with an in-line preamp or with a TA4F connector for wireless applications
- Choice of black or tan finish to suit your performance environment



Beta 53

Available Models

BETA 53	Subminiature Omnidirectional Condenser Headworn Microphone with XLR connection (Black)
WBH53B	Subminiature Omnidirectional Condenser Headworn Microphone with TQG connection (Black)
WBH53T	Subminiature Omnidirectional Condenser Headworn Microphone with TQG connection (Tan)

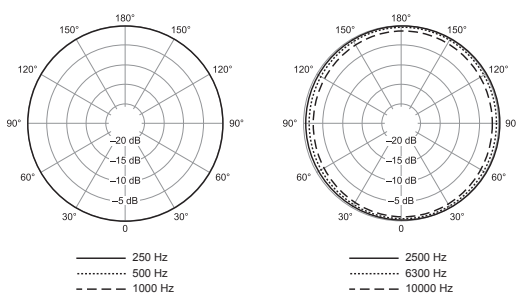
Specifications

Cartridge Type	Condenser (electret bias)
Frequency Response	20 to 20,000 Hz
Polar Pattern	Omnidirectional
Self-Noise	42.5 dB SPL (A-Weighted)
Signal-to-Noise Ratio	55 dB at 94 dB SPL
Recommended Minimum Input Impedance	>1 kΩ
Preamp Output Impedance	160 Ω
Sensitivity <i>open circuit, ref. 1v/Pa at 1 kHz</i>	-54.0dB 3.16mV
Maximum Sound Pressure Level	150.5 dB SPL at 1% THD/1 kΩ load
Dynamic Range	108 dB (max. SPL with 1k load, minus typical A-wt. noise)
Current Drain	4.6 mA (preamp and microphone)
Output Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 at the output connector of the preamp
Power Requirements	Phantom power; 11 to 52 Vdc positive on pins 2 and 3, return on pin 1 (ground)
Net Weight	1135.35 g (4.75 oz.) microphone and in-line preamp
Cable	1.5 m (5 ft.), small-diameter, shielded, with mini 4-pin connector (TA4F)

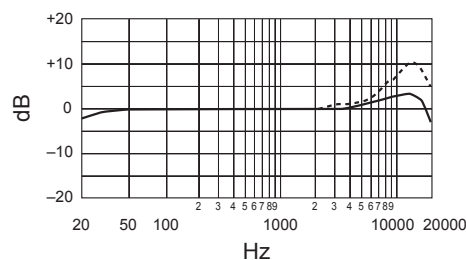
Accessories and Replacement Parts

WA331	4-Pin Mini Connector (TA4F) (1 piece)	RPM627	In-Line Preamp (1 piece)
RPM646	Microphone/Boom Assembly with TA4F Connector, Black (1 piece)	RPM208	Standard Protective Cap (gold mesh) (5 pieces)
RPM510	Swiveling Lapel Clip (5 pieces)	RPM570	Boom Holder and Logo Pad (2 each)
RPM648	Microphone/Boom Assembly with TA4F Connector, Tan (1 piece)	RPM212	Standard Protective Cap (gold mesh) (5 pieces)
RPM512	Swiveling Lapel Clip (5 pieces)	RPM580	Boom Holder and Logo Pad (2 each)
		RPM316	Snap-fit Foam Windscreen (4 pieces)
		RPM550	Headband (1 piece, with boom holder and logo pad)
		RPM318	Snap-fit Foam Windscreen (4 pieces)
		RPM560	Headband (1 piece, with boom holder and logo pad)

Polar Pattern



Frequency Response



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