

# Product Specifications

## Beta<sup>®</sup> 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

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

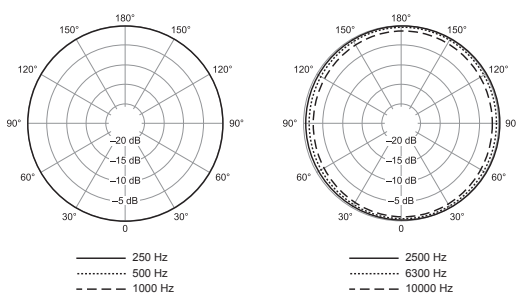
### Specifications

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 k $\Omega$
Preamp Output Impedance	160 $\Omega$
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 k $\Omega$ 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)

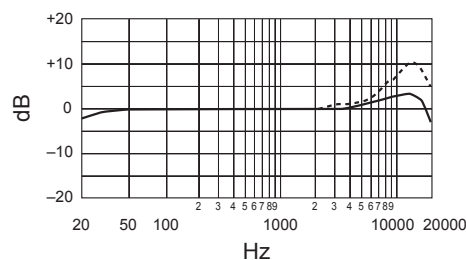
### Accessories and Replacement Parts

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

#### Polar Pattern



#### Frequency Response



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