

# Product Specifications

## Beta<sup>®</sup> 54 Subminiature Headworn Condenser Microphone

### Overview

Shure model Beta 54 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

- Supercardioid polar pattern provides maximum gain-before-feedback and ambient rejection
- Extended frequency response tailored for vocal performances
- Able to handle extremely high sound pressure levels (SPL)
- Snap-fit foam windscreens stay in place during intensive movement
- 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 54

### Available Models

<b>BETA 54</b>	Subminiature Supercardioid Condenser Headworn Microphone with XLR connection (Black)
<b>WBH54B</b>	Subminiature Supercardioid Condenser Headworn Microphone with TQG connection (Black)
<b>WBH54T</b>	Subminiature Supercardioid Condenser Headworn Microphone with TQG connection (Tan)

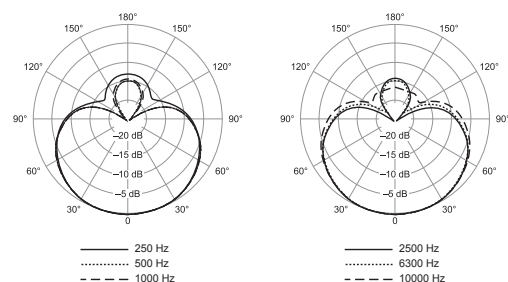
### Specifications

Cartridge Type	Condenser (electret bias)
Frequency Response	20 to 20,000 Hz
Polar Pattern	Supercardioid
Self-Noise	43.1 dB SPL (A-Weighted)
Signal-to-Noise Ratio	55 dB at 94 dB SPL
Recommended Minimum Input Impedance	>1 k $\Omega$
Preamp Output Impedance	136 $\Omega$
Sensitivity <i>open circuit, ref. 1v/Pa at 1 kHz</i>	-56.0 dBV/Pa (2.51 mV)
Maximum Sound Pressure Level	141.4 dB SPL at 1% THD/1 k $\Omega$ load
Dynamic Range	110 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	135.35 g (4.75 oz.) microphone and in-line preamp
Cable	1.5 m (5 ft.), small-diameter, shielded, with mini 4-pin connector (TA4F)

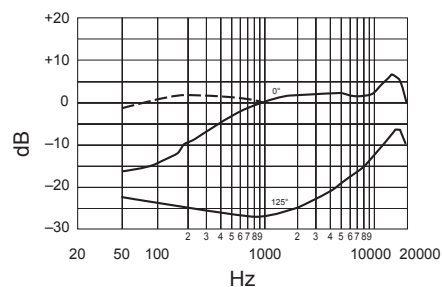
### Accessories and Replacement Parts

<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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