



BETA 54 / WBH54 / RPM627

Type

Electret Condenser

Frequency Response

50 to 20,000 Hz

Polar Pattern

Supercardioid

Output Impedance (RPM627)

160 Ω

Sensitivity

at 1kHz, open circuit voltage

BETA 54	-56.0 dBV/Pa(2.51 mV)[1]
WBH54	-56.0 dBV/Pa(1.58 mV)[1]

Maximum SPL

1 kHz at 1% THD[2]

BETA 54	141.4 dB
WBH54	152.5 dB

Signal-To-Noise Ratio[3]

55.0 dB

Dynamic Range

at 1kHz

BETA 54	98.3 dB
WBH54	109.4 dB

Self Noise

equivalent SPL, A-weighted, typical

43.1 dB

Power Requirements

BETA 54	11–52 V DCphantom power[4], 2 mA
WBH54	+5 V DC

Polarity

BETA 54	Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3
WBH54	Positive pressure on diaphragm produces positive voltage on pin 3 with respect to pin 1

Weight

BETA 54	135 g(4.75 oz.)
WBH54	35 g(1.25 oz.)

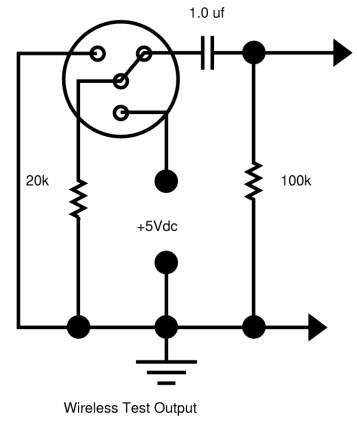
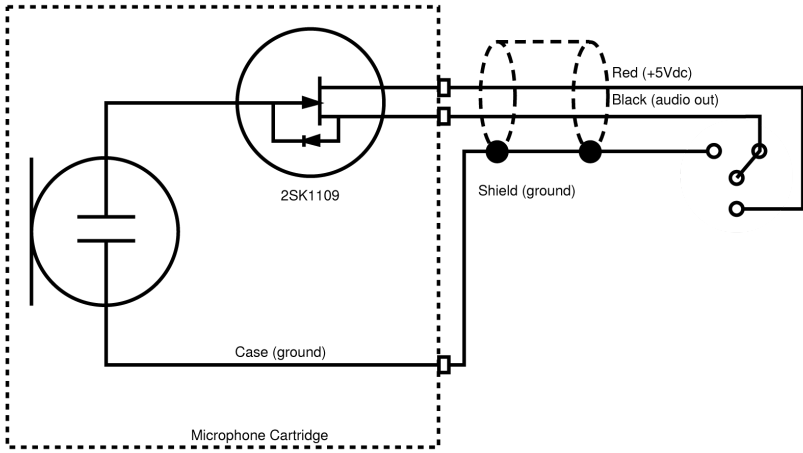
Cable

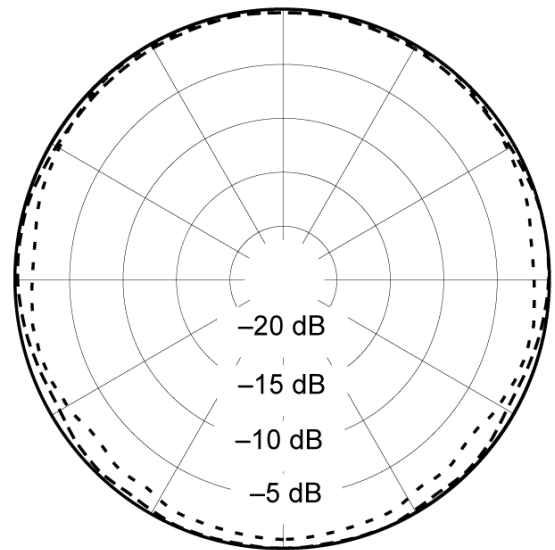
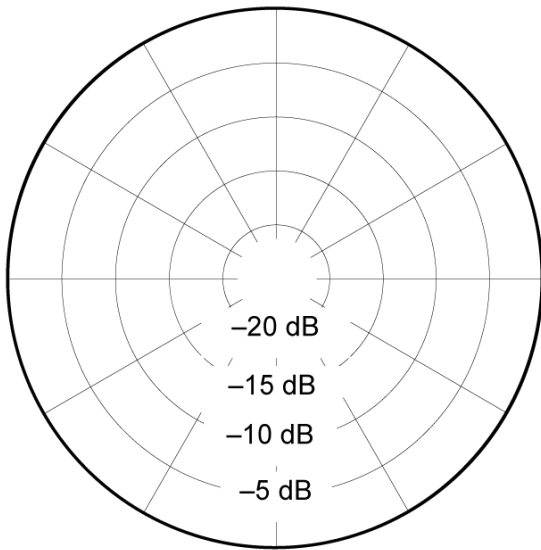
1.5 m (5 ft)

[1] 1 Pa=94 dB SPL

[2] THD of microphone preamplifier when applied input signal level is equivalent to cartridge output at specified SPL

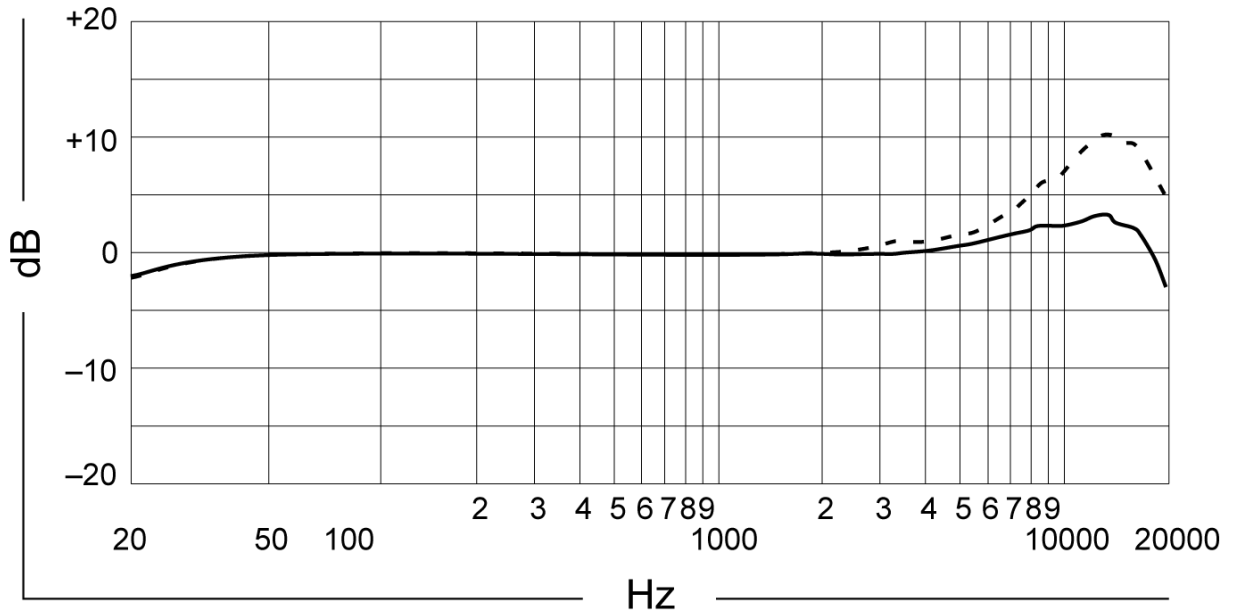
[3] S/N ratio is the difference between 94 dB SPL and equivalent SPL of self-noise, A-weighted





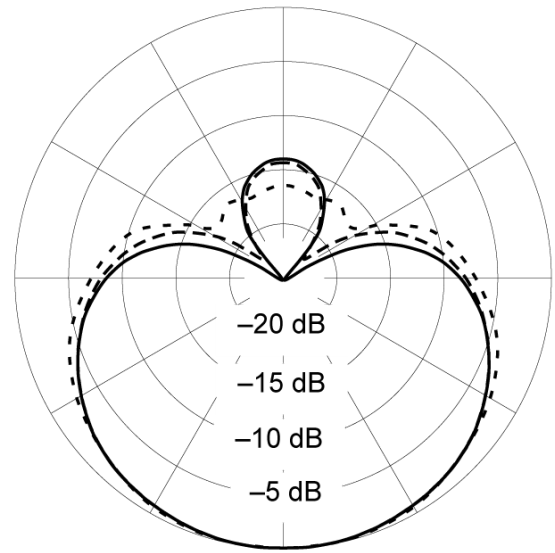
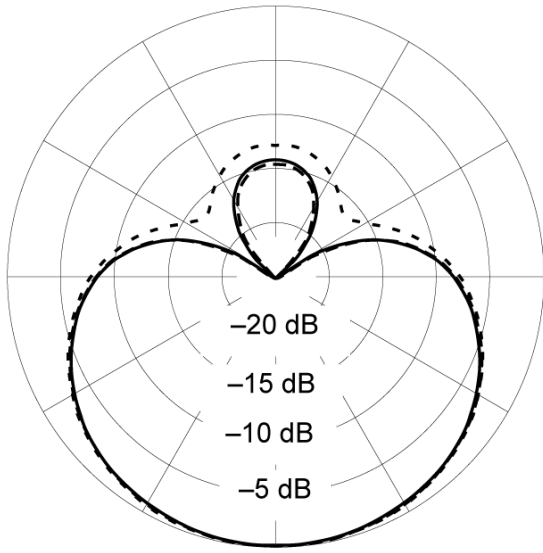
- - - - - 250 Hz
 - - - - - 500 Hz
 _____ 1000 Hz

_____ 2.5 kHz
 - - - - - 6.3 kHz
 - - - - - 10 kHz



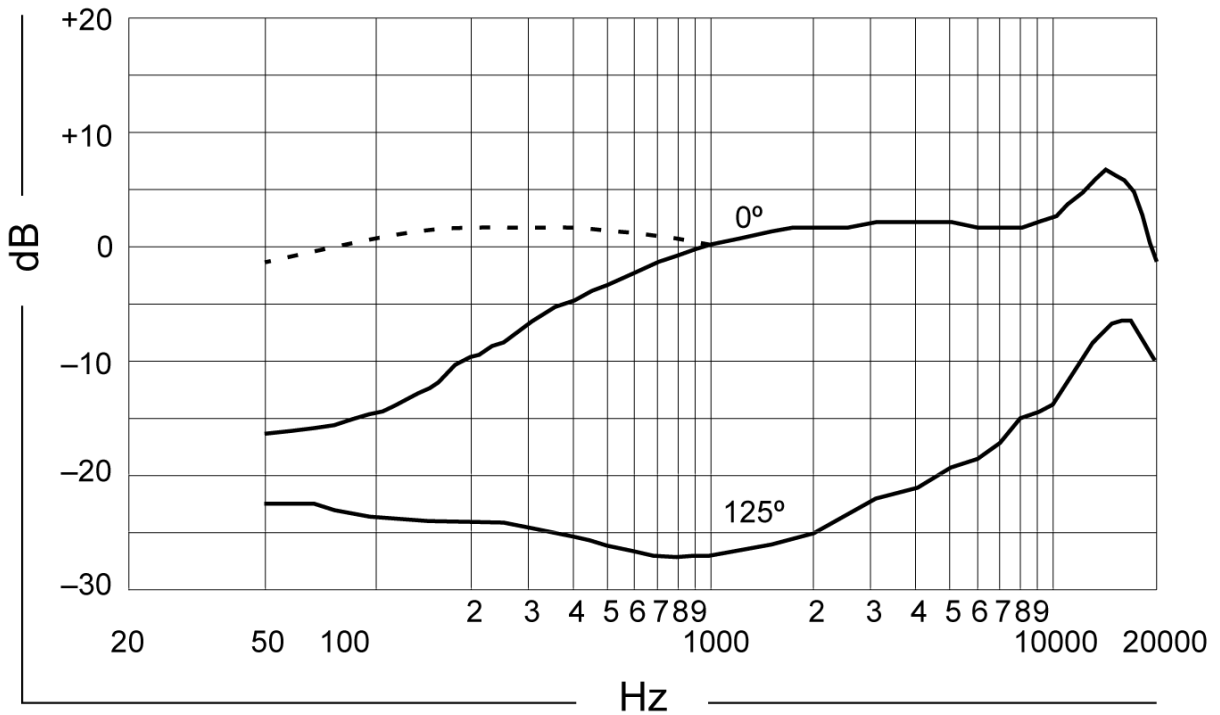
Standard Protective Cap - - - - -
 Filtered Protective Cap _____

BETA53 Typical Polar Pattern and Frequency Response



- - - - - 250 Hz
 - - - - - 500 Hz
 _____ 1000 Hz

_____ 2.5 kHz
 - - - - - 6.3 kHz
 - - - - - 10 kHz



15 mm (.6 in) - - - - -
 606 mm (2 ft) _____

BETA54 Typical Polar Pattern and Frequency Response