

MV692/UM70

Condenser microphone with switchable polar patterns.

The MV692/UM70 condenser microphone is intended for use in a diversity of recording situations. The microphone capsule functions as a pressure gradient transducer, and is provided with two goldplated plastic diaphragms. By application of the appropriate polarisation voltages, the three directional characteristics omnidirectional, cardioid and figure-8 can be selected as required. This is effected by a selector ring at the bottom of the capsule head. The capsule guard is executed in two colors. The direction of maximum sensitivity is radial, i.e. vertical to the microphone axis, and marked by the light-colored side of the grille.

MV 692 Microphone Amplifier

The microphone amplifier serves as an impedance transformer for adapting the LF high-impedance condenser microphone capsule to the low impedances of connected amplifiers. The circuitry includes a FET input stage, an integrated circuit, a dc/dc converter circuit for the generation of the polarisation voltage and the output transformer. Two switches permit respectively 10 dB-preattenuation for the handling of very high sound pressure levels and a reduction of the sensitivity factor for low frequencies. The latter provides compensation for the proximity effect. The amplifier CB is accommodated in a tubular housing 25 mm in diameter provided at one end with a thread for the attachment of the microphone capsule and at the other with a 3-pin XLR connector for a C 70 microphone cable. The power supply is provided by 48V phantom powering, which is internationally standardized as P 48 in DIN 45 596 and IEC 268-15.



Technical Data MV 692/UM 70

Polar patterns	omni, cardioid, fig-8
Acoustical operating principle	Pressure gradient transducer
Frequency range	40 ... 18000 Hz
Switch position "reduced bass roll-off" at 60 Hz	-10 dB ± 1 dB
Sensitivity	5/10/6 mV/Pa ± 3 dB
Rated impedance	200 Ω
Nominal load impedance	1 kΩ
Equivalent loudness level due to inherent noise	CCIR 468-4 29 dB IEC 651 18 dB-A
Signal-to-noise ratio (re 1 Pa at 1 kHz)	CCIR-weighted 65 dB A-weighted 76 dB
Max. SPL for THD < 0.5%	130/125/130 dB with 10 dB preattenuation 137/135/137 dB
Total dynamic range of the microphone amplifier	107 dB
Current consumption (P48, DIN 45 596, IEC 268-15)	2 mA
Output connector	3-pin XLR connector goldplated contacts Special connectors can be made to order
Weight	285 g
Dimensions (L × φ)	220 mm × 42/25 mm

omni

cardioid

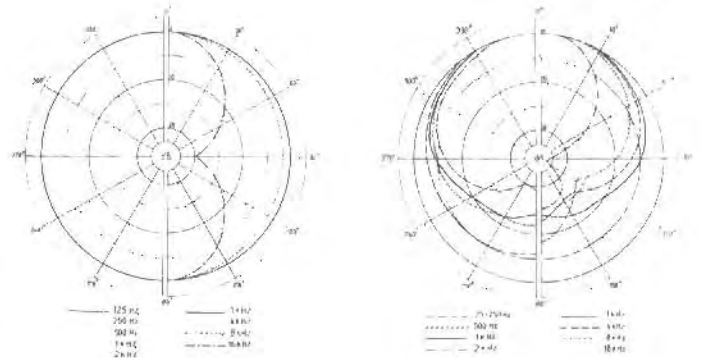
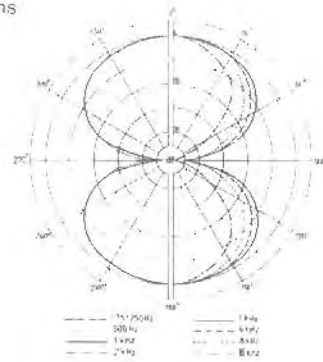
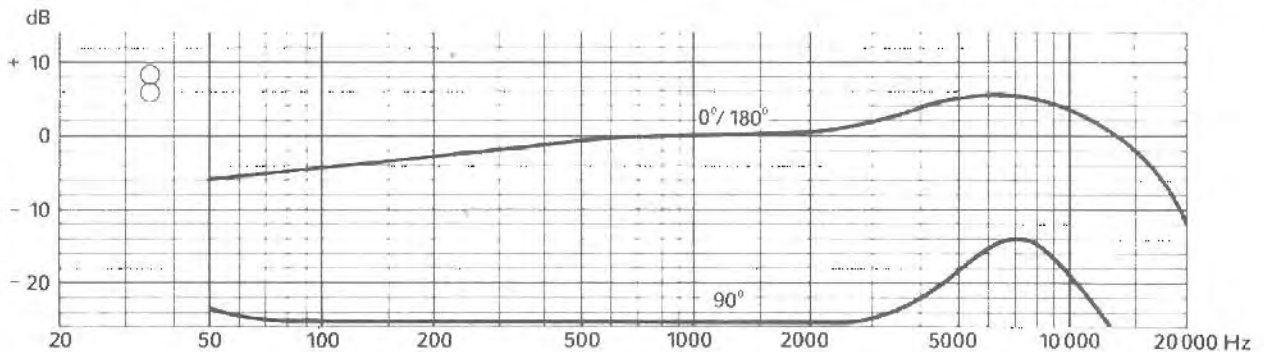
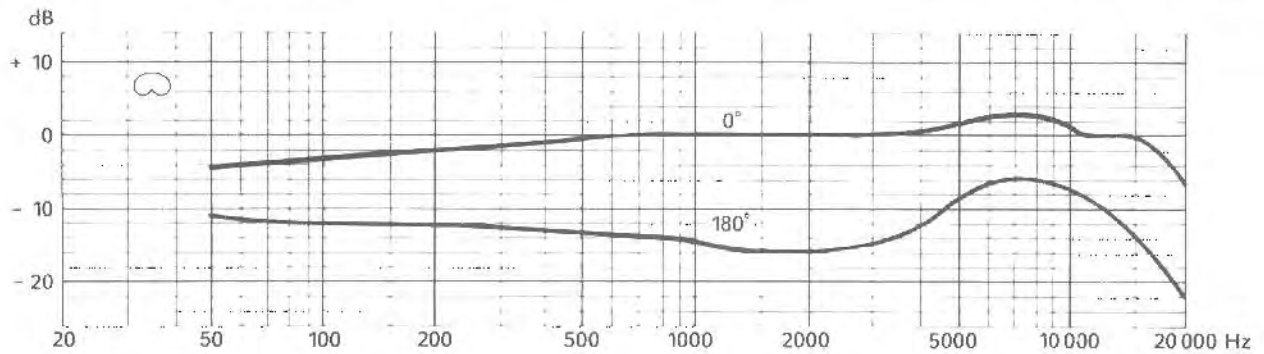
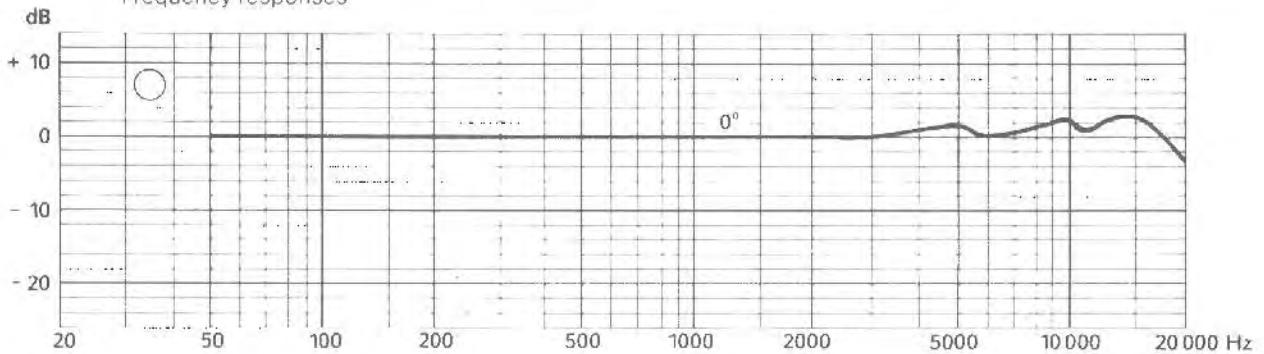


fig-8

Polar patterns



Frequency responses



MV 692 / M 69

Condenser microphone with omnidirectional polar pattern.

The MV 692 / M 69 studio microphone is specially designed for sound recording in free field at short distances from the sound source.

The pressure transducer functions with a high frequency tuned gold-plated plastic diaphragm, which guarantees life-like recording characteristics.

The free field frequency response is virtually linear over a wide range.

The direction of maximum sensitivity is axial.

The microphone amplifier MV 692 includes a low-noise FET-input stage and balanced output transformer. It is possible to switch on a 10 dB-preattenuation for the handling of very high sound pressure levels. Besides, a reduction of the sensitivity factor can be utilized for low frequencies. Both switches are sunk placed at the lower end of the amplifier.

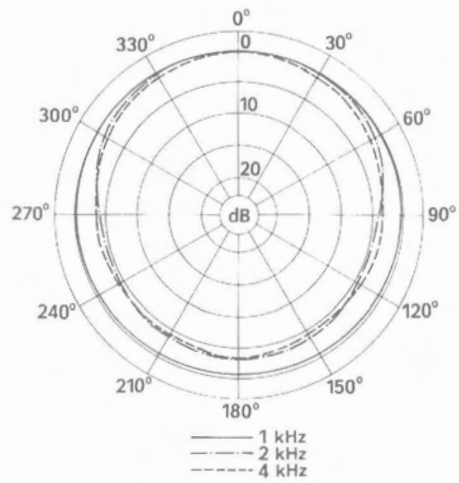
The microphone is equipped with a 3-pin XLR connector for the C 70 microphone cable. The power supply is provided by 48V phantom powering, which is internationally standardized as P 48 in DIN 45596 and IEC 268-15.

The microphone is available in the versions matt black and satin nickel.

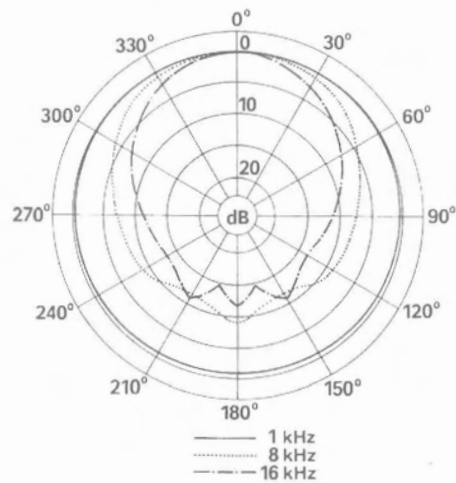


Technical Data MV 692 / M 69

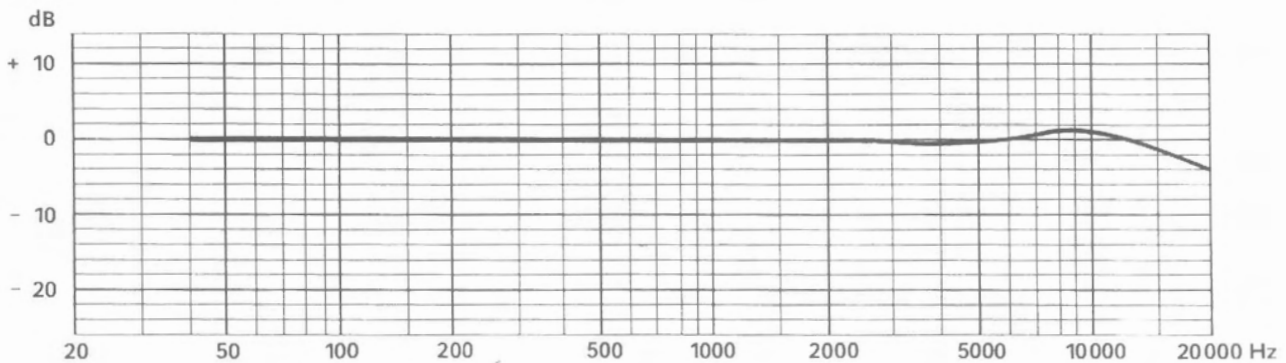
Polar pattern	Omni	
Acoustical operating principle	Pressure transducer	
Frequency range	30 ... 18000 Hz	
Switch position "reduced bass roll-off" at 60 Hz	-10 dB ± 1 dB	
Sensitivity at 1 kHz	10 mV/Pa ± 3 dB	
Rated impedance	200 Ω	
Nominal load impedance	1 kΩ	
Equivalent loudness level due to inherent noise	CCIR 468-4	29 dB
	IEC 651	18 dB-A
Signal-to-noise ratio (re 1 Pa at 1 kHz)	CCIR-weighted	65 dB
	A-weighted	76 dB
Max. SPL for THD ≤ 0.5% with 10 dB preattenuation	125 dB	
	135 dB	
Total dynamic range of the microphone amplifier	107 dB	
Current consumption (P 48, DIN 45596, IEC 268-15)	2 mA	
Output connector	3-pin XLR connector goldplated contacts on customer request with other connectors available	
Weight	165 g	
Dimensions (L x ∅)	150 mm x 25 mm	



Polar patterns



Frequency response



MV 692/M 70

Condenser microphone with cardioid polar pattern

The MV 692/M 70 microphone is equipped with a capsule with cardioid characteristic, and functions as a combined pressure/pressure gradient transducer. The converter element contains a nickel diaphragm in front of a PTFE-plated electrode. The coating of the electrode serves to increase performance reliability. The frequency response in the upper range is virtually linear, while in the lower frequency band it features a slight roll-off to counteract the bass lift of close speech (proximity effect). The microphone is thus ideally suitable for recordings in close proximity to the sound source. The direction of maximum sensitivity is axial, i.e. endwise to the microphone.

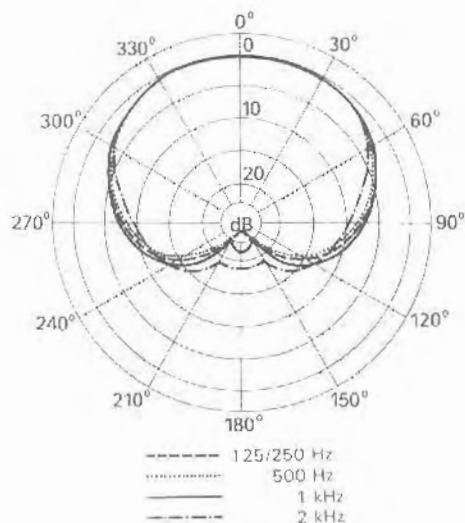
MV 692 Microphone Amplifier

The microphone amplifier serves as an impedance transformer for adapting the LF high-impedance condenser microphone capsule to the low impedances of connected amplifiers. The circuitry includes a FET input stage, an integrated circuit, a dc/dc converter circuit for the generation of the polarisation voltage and the output transformer. Two switches permit respectively 10 dB preattenuation for the handling of very high sound pressure levels and a reduction of the sensitivity factor for low frequencies. The latter provides compensation for the proximity effect. The amplifier CB is accommodated in a tubular housing 25 mm in diameter provided at one end with a thread for the attachment of the microphone capsule and at the other with a 3-pin XLR connector for a C70 microphone cable. The power supply is provided by 48 V phantom powering, which is internationally standardized as P 48 in DIN 45 596 and IEC 268-15.

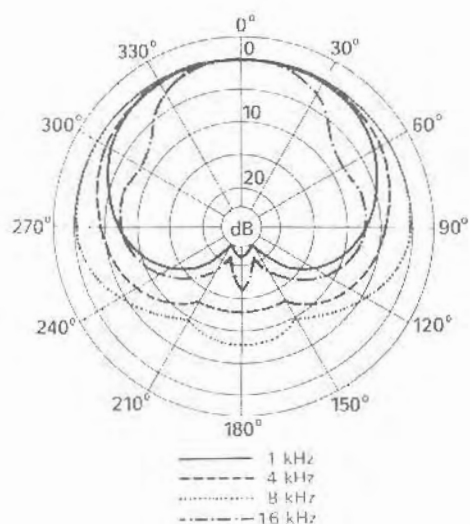


Technical Data MV 692/M 70

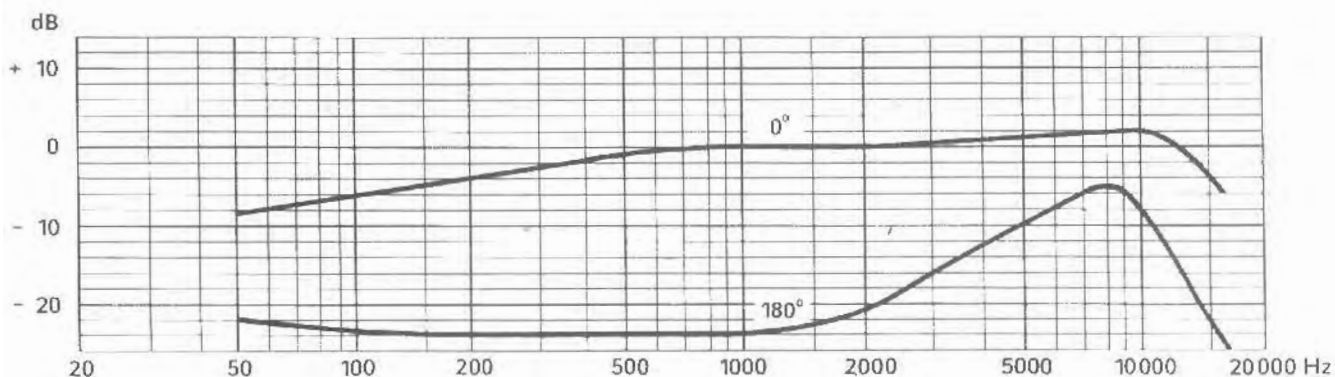
Polar pattern	cardioid	
Acoustical operating principle	Pressure gradient transducer	
Frequency range	40 ... 18 000 Hz	
Switch position "reduced bass roll-off" at 60 Hz	- 10 dB ± 1 dB	
Sensitivity	12 mV/Pa ± 3 dB	
Rated impedance	200 Ω	
Nominal load impedance	1 kΩ	
Equivalent loudness level due to inherent noise	CCIR 468-4	27 dB
	IEC 651	16 dB-A
Signal-to-noise ratio (re 1 Pa at 1 kHz)	CCIR-weighted	67 dB
	A-weighted	78 dB
Max. SPL for THD ≤ 0.5%	123 dB	
with 10 dB preattenuation	132 dB	
Total dynamic range of the microphone amplifier	107 dB	
Current consumption	2 mA	
Output connector	3-pin XLR connector goldplated contacts	
	Special connectors can be made to order	
Weight	170 g	
Dimensions (L x ∅)	165 mm x 25 mm	



Polar patterns



Frequency response



MV 692/M 93

Condenser microphone with omnidirectional polar pattern.

The MV 692/M 93 condenser microphone is a pressure transducer with high frequency tuned, gold-plated plastic diaphragm and omnidirectional characteristic. This microphone is intended predominantly for far-field applications. The desired treble boost rising of 5 dB at 10 kHz is the warranty also for brilliant recordings at undefined sound direction. The direction of maximum sensitivity is axial.

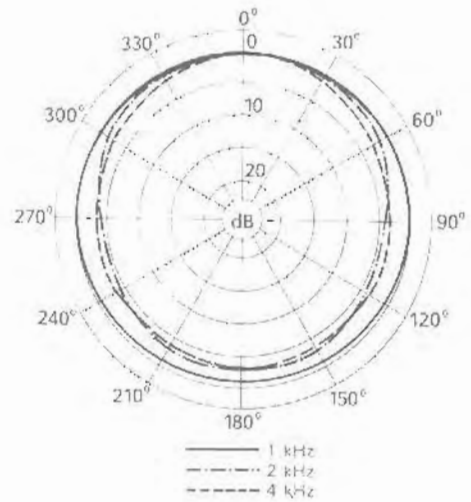
MV 692 Microphone Amplifier

The microphone amplifier serves as an impedance transformer for adapting the LF high-impedance condenser microphone capsule to the low impedances of connected amplifiers. The circuitry includes a FET input stage, an integrated circuit, a dc/dc converter circuit for the generation of the polarisation voltage and the output transformer. Two switches permit respectively 10 dB preattenuation for the handling of very high sound pressure levels and a reduction of the sensitivity factor for low frequencies. The amplifier CB is accommodated in a tubular housing 25 mm in diameter provided at one end with a thread for the attachment of the microphone capsule and at the other with a 3-pin XLR connector for a C70 microphone cable. The power supply is provided by 48 V phantom powering, which is internationally standardized as P 48 in DIN 45 596 and IEC 268-15.

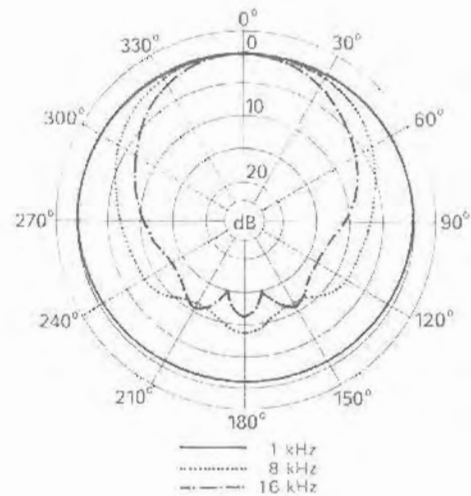


Technical Data MV 692/M 93

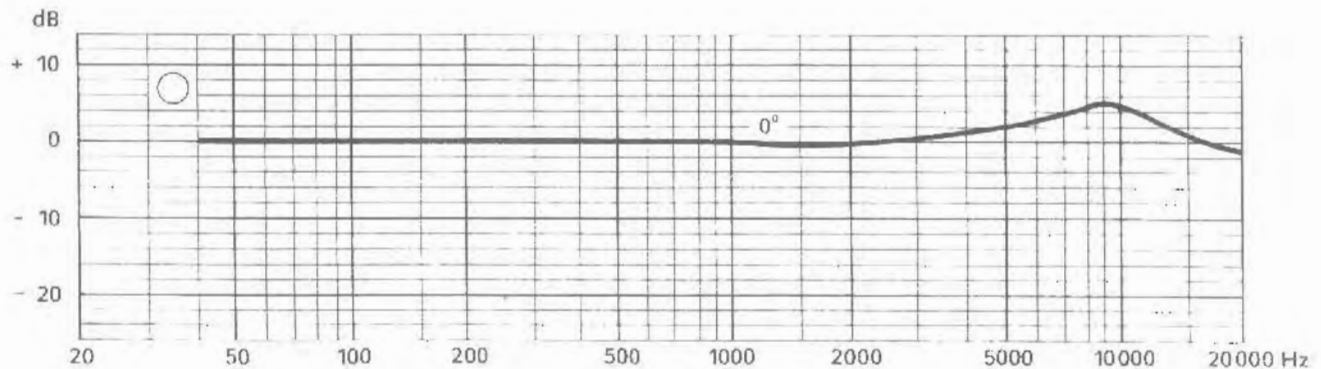
Polar pattern	Omni	
Acoustical operating principle	Pressure transducer	
Frequency range	40 ... 20 000 Hz	
Switch position "reduced bass roll-off" at 60 Hz	-10 dB ± 1 dB	
Sensitivity	9 mV/Pa ± 3 dB	
Rated impedance	200 Ω	
Nominal load impedance	1 kΩ	
Equivalent loudness level due to inherent noise	CCIR 468-4	29 dB
	IEC 651	19 dB-A
Signal-to-noise ratio (re 1 Pa at 1 kHz)	CCIR-weighted	65 dB
	A-weighted	75 dB
Max. SPL for THD ≤ 0.5%	126 dB	
with 10 dB preattenuation	135 dB	
Total dynamic range of the microphone amplifier	107 dB	
Current consumption	2 mA	
Output connector	3-pin XLR connector goldplated contacts	
	Special connectors can be made to order	
Weight	153 g	
Dimensions (L x φ)	150 mm x 25 mm	



Polar patterns



Frequency response



MV 692/M 94

Condenser microphone with cardioid polar pattern.

The MV 692/M 94 studio microphone is equipped with a microphone capsule operating as a pressure gradient transducer. The converter element contains a nickel diaphragm with a thickness of less than 1 μm . The desired treble boost rising of nearly 5 dB at about 8 kHz gives this microphone its special sound.

It is recommendable at close-talking to use a close-speech screen to counteract the bass lift (proximity effect).

In order to get a life-like recording on location a wind screen should be utilized.

The direction of maximum sensitivity is axial.

The microphone amplifier MV 692 includes a low-noise FET-input stage and a balanced output transformer. It is possible to switch on a 10 dB-preattenuation for the handling of very high sound pressure levels.

For the compensation of the proximity effect the sensitivity factor can be reduced for low frequencies. Both switches are sunk placed at the lower end of the amplifier.

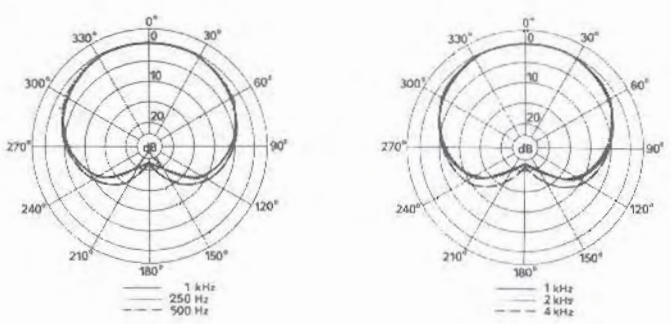
The microphone is equipped with a 3-pin XLR connector for the C 70 microphone cable. The power supply is provided by 48V phantom powering, which is internationally standardized as P 48 in DIN 45596 and IEC 268-15.

The microphone is available in the versions matt black and satin nickel.

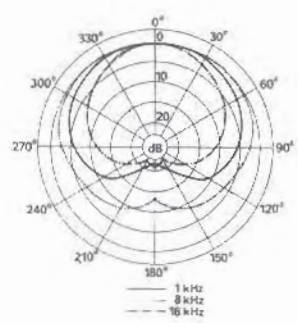


Technical Data MV 692/M 94

Polar pattern	cardioid	
Acoustical operating principle	Pressure gradient transducer	
Frequency range	40 ... 18000 Hz	
Switch position "reduced bass roll-off" at 60 Hz	-10 dB ± 1 dB	
Sensitivity at 1 kHz	15 mV/Pa ± 3 dB	
Rated impedance	200 Ω	
Nominal load impedance	1 kΩ	
Equivalent loudness level due to inherent noise	CCIR 468-4	29 dB
	IEC 651	18 dB-A
Signal-to-noise ratio (re 1 Pa at 1 kHz)	CCIR-weighted	65 dB
	A-weighted	76 dB
Max. SPL for THD ≤ 0.5%	121 dB	
with 10 dB preattenuation	131 dB	
Total dynamic range of the microphone amplifier	103 dB	
Current consumption (P48, DIN 45 596, IEC 268-15)	2 mA	
Output connector	3-pin XLR connector goldplated contacts	
	On customer request with other connectors available	
Weight	180 g	
Dimensions (L × φ)	165 mm × 25 mm	



Polar patterns



Frequency response

