



DT 109

HEADSET WITH DYNAMIC MICROPHONE



beyerdynamic

FEATURES

- Highly sensitive headphone and microphone transducers
- Excellent ambient noise attenuation
- Capable of handling very high SPL
- Rugged construction
- Excellent comfort for long-term wearing
- Modular construction for easy servicing

APPLICATIONS

For many years, the DT 109 has been the standard headphone/microphone combination for live, remote broadcasting, studio, film, TV and language laboratory application. Rugged, field-servicable construction. The headphone transducers feature extended frequency response. Adjustable, noise-cancelling microphone provides clear, audible speech transmission.

TECHNICAL SPECIFICATIONS

Headphone

Transducer type	Dynamic
Operating principle	Closed
Frequency response	30 - 20,000 Hz
Nominal impedance	400 Ω $\pm$ 10% per cartridge*
Nominal SPL at 1 kHz	94 dB
T.H.D.	< 1%
Power handling capacity	1000 mW $\triangleq$ 124 dB
Ambient noise attenuation	approx. 20 dBA
Sound coupling to the ear	Circumaural
Headband pressure	approx. 4.5 N
Weight (without cable)	283 g

Microphone

Transducer type	Dynamic
Operating principle	Pressure gradient
Frequency response	40 - 12,000 Hz
Polar pattern	Hypercardioid
Output voltage	approx. 2.5 mV at a distance of 5 cm
Nominal impedance	200 Ω
Load impedance	$\geq$ 1000 Ω

*more impedances available

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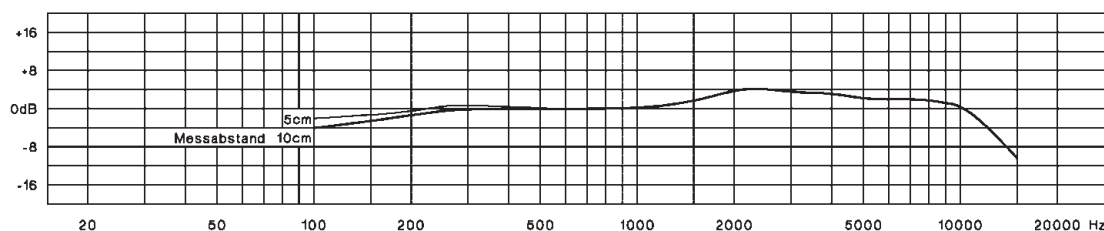
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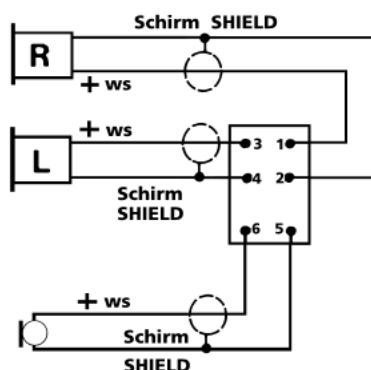
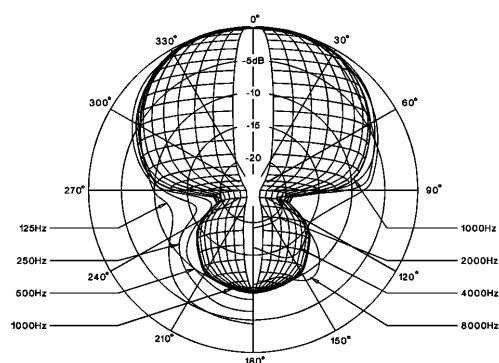
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FREQUENCY RESPONSE & POLAR PATTERN

This frequency response curve (measuring tolerance ± 2.5 dB) and polar pattern correspond to a typical production sample for this microphone.



WIRING DIAGRAM



VERSIONS

Model	Description	Order #
• DT 109	Headset, 200/50 Ω , grey, without K 109... cable	101.877
• DT 109	Headset, 200/ 50 Ω , black, without K 109...cable	402.974
• DT 109	Headset, 200/400 Ω , grey, without K 109...cable	101.885
• DT 109	Headset, 200/400 Ω , black, without K 109...cable	402.982
• DT 109	Headset, 200/50 Ω , grey, with bare-ended K 109.00 cable	421.901
• DT 109	Headset, 200/ 50 Ω , black, with bare-ended K 109.00 cable	421.928
• DT 109	Headset, 200/400 Ω , grey, with bare-ended K 109.00 cable	421.049
• DT 109	Headset, 200/400 Ω , black, with bare-ended K 109.00 cable	422.045

OPTIONAL ACCESSORIES

Model	Description	Order #
• K 109.00	Straight bare-ended cable, 1.5 m long	101.907
• K 109.40	Straight bare-ended cable, 1.5 m long, with 3-pin XLR-plug and 1/4" jack	449.121

SPARE PARTS

Model	Description	Order #
• DT 100-Serie	Earpad, circumaural	407.003
• BN 59-18/A	Headband pad	108.715