

DT 109

Headset with dynamic Microphone



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.

VERSIONS

- | | | |
|--------|----------------------------------|-----------------|
| DT 109 | Headset, 200/50 Ω , black | Order # 402.974 |
| DT 109 | Headset, 200/50 Ω , black | Order # 402.982 |

OPTIONAL ACCESSORIES

- | | | |
|-----------|--|-----------------|
| K 109.00 | Bare-ended straight cable, 1.5 m long | Order # 101.907 |
| K 109.00 | Bare-ended straight cable, 3 m long | Order # 127.949 |
| K 109.28 | Straight cable with 4-pin XLR-socket, 3 m long | Order # 220.132 |
| K 109.38 | Straight cable with 5-pin XLR-plug, 1.5 m long | Order # 406.538 |
| K 109.40 | Straight cable with 3-pin XLR-plug and 1/4" jack (6.35 mm), 1.5 m long | Order # 449.121 |
| K 109.42 | Straight cable with 4-pin XLR-plug, 1.5 m long | Order # 446.548 |
| WK 109.00 | Bare-ended coiled cable, 3 m long | Order # 198.900 |

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 $\hat{=}$ 124 dB |
| Ambient noise attenuation | approx. 20 dBA |
| Sound coupling to the ear | Circumaural |
| Headband pressure | approx. 4.5 N |
| Weight (without cable) | 390 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

SPARE PARTS

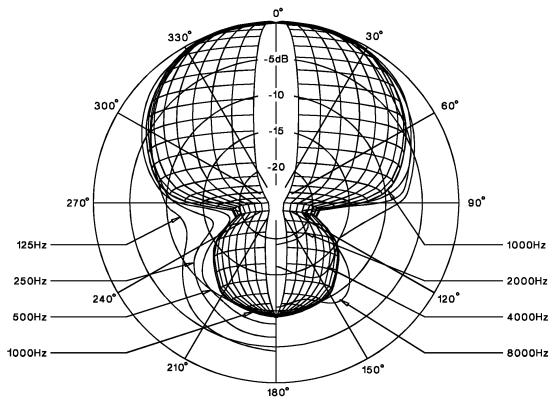
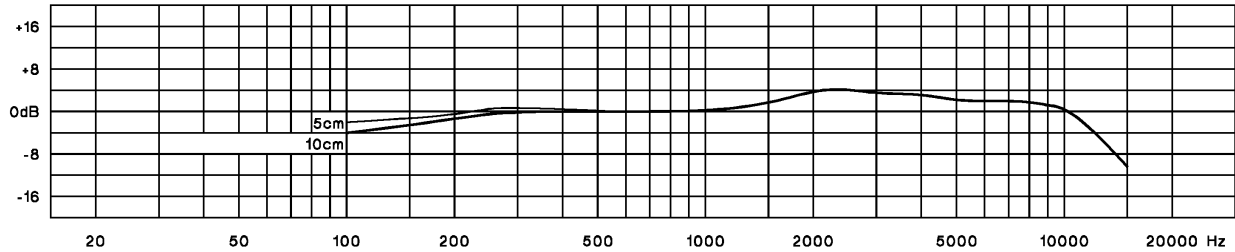
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|------------|---|-----------------|
| EDT 100 S | Ear pads, soft PVC, circumaural | Order # 907.003 |
| EDT 100 P | Ear pads, plush, circumaural | Order # 945.576 |
| EDT 100 T | Ear pads, cotton jersey, circumaural | Order # 945.584 |
| BN 59-18/A | Headband pad | Order # 108.715 |
| BN 56-79/A | Pop shield (5 pcs.) | Order # 108.677 |

DT 109

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.

Frequency response curve ± 2.5 dB 0 dB = 2.5 mV at a distance of 5 cm



WIRING DIAGRAM

