MODEL BETA 52

DESCRIPTION

The Shure BETA 52 is a specialized dynamic instrument microphone with a tailored frequency response designed specifically for kick drums and other bass instruments. It provides superb attack and “punch,” and delivers studio quality sound even at extremely high sound pressure levels.

The BETA 52 features a modified supercardioid pattern to ensure high gain before feedback and excellent rejection of unwanted sound. A built-in dynamic locking stand adapter with an integral XLR connector simplifies installation, particularly if the microphone is to be placed inside a kick drum. The stand adapter keeps the microphone position fixed and resists slipping, even when subjected to sharp blows and strong vibrations. A hardened steel mesh grille protects the BETA 52 from the abuse and wear associated with touring.

Features

- Frequency response shaped specifically for kick drums and bass instruments
- Built-in dynamic locking stand adapter with integral XLR connector simplifies setup, especially inside a kick drum
- Studio quality performance, even at extremely high sound pressure levels
- Modified supercardioid pattern for high gain before feedback and superior rejection of unwanted sound
- Hardened steel mesh grille that resists wear and abuse
- Advanced pneumatic shock mount system that minimizes transmission of mechanical noise and vibration
- Neodymium magnet
- Low sensitivity to varying load impedance
- Legendary Shure quality and reliability

SPECIFICATIONS

Type
Dynamic (moving coil)

Frequency Response
20 to 10,000 Hz (see Frequency Response, page 2)

Polar Pattern
Modified supercardioid, rotationally symmetrical about microphone axis (see Polar Patterns, page 2)

Impedance
Rated at 150 Ω (45 Ω actual) for connection to microphone inputs rated low Z

Output Level (at 1,000 Hz)
Open Circuit Voltage: –84 dB* (0.06 mV)
*0 dB = 1 v/μbar

Hum Pickup (at 60 Hz)
Maximum 15.0 mV in 10 oe field
Maximum 26.5 dB equivalent SPL per 1 moe

Polarity
Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3

Maximum SPL
174 dB at 1000 Hz (calculated)

Connector
Three-pin professional audio connector (male XLR)

Case
Silver blue enamel-painted die cast metal with hardened, matte-finished steel mesh grille

Adjustable, Locking Stand Adapter
Integral, dynamic locking, adjustable through 180°, with standard 5/8”-27 thread

Net Weight
605 grams (21.6 oz)

Certification
Conforms to European Union directives, eligible to bear CE marking; meets European Union EMC Immunity Requirements (EN 50 082–1, 1992); RF radiated (IEC 801–3); ESD (IEC 801–2); EFT (IEC 801–4).

FURNISHED ACCESSORIES

Storage Bag .............................. 26A21
5/8” to 3/8” (Euro) Thread Adapter .......... 95A2050
**FREQUENCY RESPONSE**

- 250 Hz
- 500 Hz
- 1000 Hz

**DIMENSIONS**

- 120 mm (4.8 in.)
- 70 mm (2.8 in.)
- 160 mm (6.4 in.)

**Polar Patterns**

- 250 Hz
- 500 Hz
- 1000 Hz

**Internal Connections**

- Yellow
- Green
- Blue
- GND
- 15 mH
- 22 µF 16 V
- 22 Ω 2% 1/4 w

**Specifications**

- Model Beta 52
- Frequency response range: 20 Hz to 20 kHz
- Sensitivity: 22 Ω 2% 1/4 w
- Impedance: 220 Ohms
- Capacitance: 22 µF 16 V
- Frequency response chart
- Polar pattern diagrams
- Internal connection diagram

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