

RE50N/D RE50N/D-B

Shock-Mounted, Omnidirectional Dynamic Microphones

- Powerful Electro-Voice neodymium (N/DYM®) magnet results in greater output than with standard alnico magnets
- DynaDamp™ shock-isolation system for low handling noise
- Rugged design
- Choose nonreflecting fawn beige or semigloss “camera” black
- Comes complete with stand clamp and vinyl pouch

Description and Applications

The Electro-Voice RE50N/D and RE50N/D-B shock-mounted, dynamic omnidirectional microphones are offspring of the legendary RE50 microphone. Built with the same rugged design as the RE50, the RE50N/D and RE50N/D-B feature a DynaDamp™ shock mount for greater ruggedness and isolation, and a new neodymium N/DYM® magnet structure to provide increased sensitivity required in exacting professional applications.

Ideally suited for handheld broadcast and sound reinforcement applications, the RE50N/D and RE50N/D-B have been built for superior isolation from mechanically induced noise. Handling noise, clothing noise, and even cord shock are isolated from the microphone element. Within the microphone's machined-aluminum outercasing, a DynaDamp™ shock mount (manufactured using an advanced vibration-isolation material) surrounds the high-mass internal acoustic chamber and microphone element, resulting in a degree of isolation unprecedented in an omnidirectional dynamic microphone.

The transducer is protected through a unique interlocking concept, making the RE50N/D and RE50N/D-B practically indestructible with normal use. The transducer, fitted within a high-mass internal case, is shock-isolated within an attractive external case, therefore protecting the transducer from sudden shock. The microphone's diaphragm permits a very smooth response over a wide frequency range, yet it withstands high humidity and temperature extremes, corrosive effects of salt air and severe mechanical shocks. The diaphragm is protected from dust and magnetic particles by a carefully designed integral windscreen and blast filter which also provides excellent protection from wind noise, excessive sibilance and annoying “P-popping.” The microphone's Memraflex™ grille is designed to bounce back to its original shape when bumped or dropped.

The RE50N/D in nonreflecting fawn beige or the RE50N/D-B in “camera” black are ideal for “on-camera” use. Both microphones are supplied with the 323S (black) stand adapter and a zippered, vinyl carrying pouch.

Architects' and Engineers' Specifications

The microphone shall be a shock-mounted, omnidirectional, dynamic type with wide-range response uniform from 80 to 13,000 Hz. The microphone shall employ a high-mass acoustic chamber, integral with the transducer assembly that shall be shock isolated within an external aluminum case. The microphone shall have an internal pop blast filter to prevent dust and magnetic particles from reaching the diaphragm. The impedance shall be such that the microphone will match 50-, 150- and 250-ohm inputs. The line shall be balanced to ground and phased.

The output level shall be -51 dB with 0 dB equalling 1 mW/10 dynes/cm². The magnetic circuit shall be nonwelded and employ a neodymium alloy magnet. The inner case shall be made of steel and the outer case of machined aluminum.

The microphone shall have a maximum diameter of 49 mm (1.94 in.) and a length of 197 mm (7.75 in.). Shank diameter shall be 25 mm (1.0 in.). Weight shall be 269 g (9.5 oz). Finish shall be nonreflecting fawn

RE50N/D and RE50N/D-B Omnidirectional Dynamic Microphones

Figure 1—Response Curve

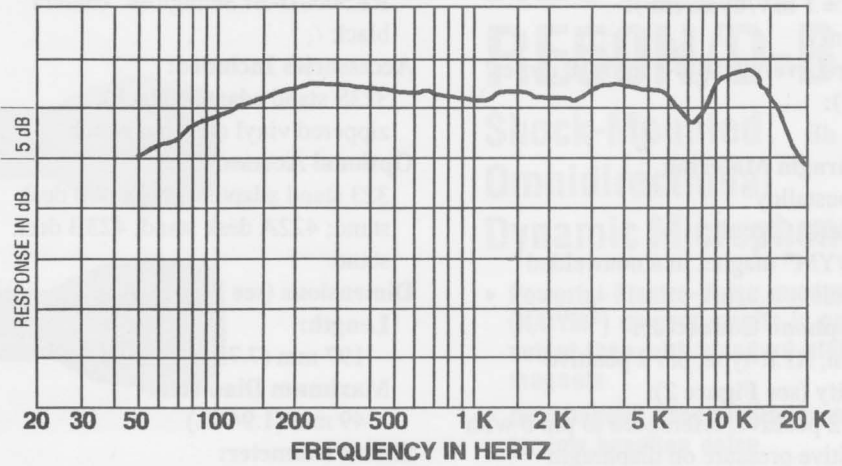


Figure 2—Wiring Diagram

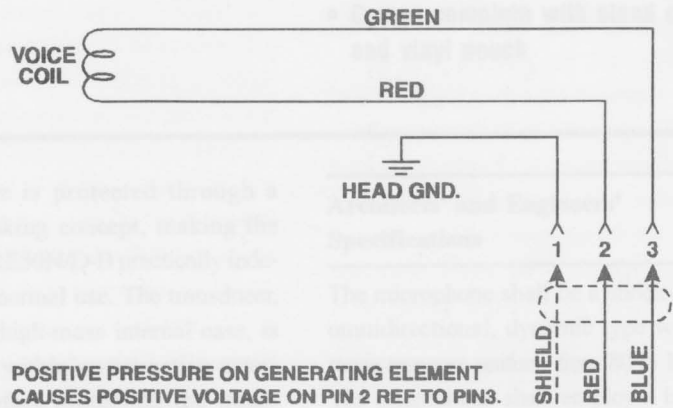


Figure 3—Dimensions

