

Dimensions

DESCRIPTION AND APPLICATIONS

The Electro-Voice RE85 miniature lavalier microphone provides the ultimate in quality and versatility for the professional user. By means of a new internally shock-mounted microphone capsule, the RE85 can offer protection from mechanical noise due to contact with clothes and cord conduction to a degree never before possible. This miniature microphone can be used held in the hand, hung on a neck cord, or suspended on a tie clip assembly, leaving the hands of an announcer or performer free. It is excellent for audience participation, man-in-the-street interviews, panel shows — wherever microphone concealment, individual mobility, or free movement of the hands is desired. No closely associated auxiliary equipment is required.

The RE85 employs a unique new nesting shock-mount principle, similar to that employed in the Electro-Voice Model RE50. The complete generating element and necessary auxiliary parts are contained in an internal capsule which is precision shock-mounted in highly compliant rubber inside an extremely rugged and durable turned-steel case. The normal problems of mechanical noise conduction associated with lavalier microphones (noises from contact with clothing, from cord contact with clothing and hard objects) are virtually eliminated.

The RE85 features the exclusive Electro-Voice Acoustalloy diaphragm. This non-metallic diaphragm withstands high humidity, temperature extremes, corrosive effects of salt air, and severe mechanical shocks. It is practically indestructible with normal use.

The RE85 is supplied equipped with three specially designed accessories intended to increase the usefulness and mounting convenience of the microphone — a lavalier neck cord assembly from which the microphone can hang, mounted in a normal lavalier fashion on the chest

of the user; a lavalier tie clip assembly, which allows hanging the microphone in a position similar to that of a tie clip; and a belt clip which can be used to keep the cord in constant position with uniform tension on the microphone. The cord assembly is supplied attached to the microphone. Used in conjunction with the neck cord assembly or tie clip assembly, the belt clip also helps to prevent unwanted mechanical noise. After inserting the cable in the clip shown in Figure 1, simply attach it to the belt at one side. It may also be clipped over the edge of a pocket or lapel.

A protective zipper pouch is also provided to house the microphone and its accessories, shielding the microphone from metal filings, airborne magnetic particles and dust when not in use.

SPECIFICATIONS

- Type:** Dynamic Generating Element
- Frequency Response:** 90 – 10,000 Hz (See Figure 1)
- Impedance:** Matches all low impedance, 50 to 250 ohms.
Line balanced to ground and phased.
- Output Level:** –61 dB (0 dB = 1 mw/10 dynes/cm²)
- EIA Sensitivity Rating:** –155 dB (into 150 ohms)
- Polar Pattern:** Omnidirectional
- Diaphragm:** Acoustalloy
- Magnetic Circuit:** Employs Alnico V and Armco magnetic iron in a non-welded circuit
- Shock Mounting:** Floating head capsule
- Case Material:** Steel
- Finish:** Champagne (smooth, non-abrasive)
- Dimensions:** 2-5/8" (67mm) l. x 59/64" (23mm) max. dia.
- Net Weight:** 8 oz. (229g) with cable
- Cable:** 30' (914cm), two-conductor shielded, with chrome gray plastic jacket
- Cable Connector:** No connector at microphone terminal
- Standard Accessories:** Neck cord assembly, tie clasp assembly, and zipper pouch for microphone and accessories

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS
 The microphone shall be an omnidirectional dynamic type with non-metallic Acoustalloy diaphragm. The microphone shall have a magnetic shield to prevent dust and magnetic particles from reaching the diaphragm. It shall have a floating head capsule, internally shock-mounted to a high degree. A response of 90 – 10,000 Hz shall be obtained. Line shall be balanced to ground and phased.

The output level shall be -61 dB with 0 dB equalling 1 mw/10 dynes/cm². EIA sensitivity rating shall be -155 dB. The magnetic circuit shall be a non-welded circuit and employ Alnico V and Armco magnetic iron.

The outer case shall be made of rugged turned steel. The microphone shall have a maximum diameter of 59/64" (23mm), and a length of 2-5/8" (67mm), and a net weight of 8 ounces (229g), including cable. The finish of the microphone shall be champagne color, non-abrasive. A 30' (914cm), two-conductor, shielded, chrome gray plastic-jacketed cable shall be provided. The microphone shall be supplied with a neck cord, tie clip assembly, and protective zipper pouch. Electro-Voice Model RE85 is specified.

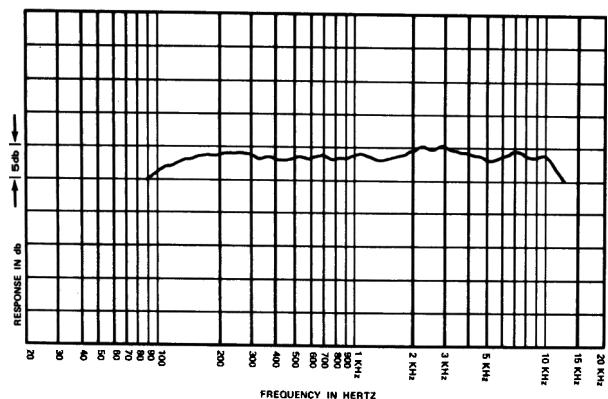


Figure 2 – Response 90° off axis
 Lavalier in position

WARRANTY (Limited)

Electro-Voice Professional Broadcast, Recording, and Sound Reinforcement Microphones are guaranteed unconditionally against malfunction from any cause for a period of two years from date of original purchase. Also, every Electro-Voice microphone is guaranteed for the life of the microphone against malfunction due to defects in workmanship and materials. If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish, appearance items, cables, cable connectors, or switches and lifetime warranty does not cover malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For correct shipping address, instructions on return of Electro-Voice products for repair, and locations of authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone:616/695-6831).

Electro-Voice also maintains complete facilities for non-warranty service of E-V products.

Specifications subject to change without notice.

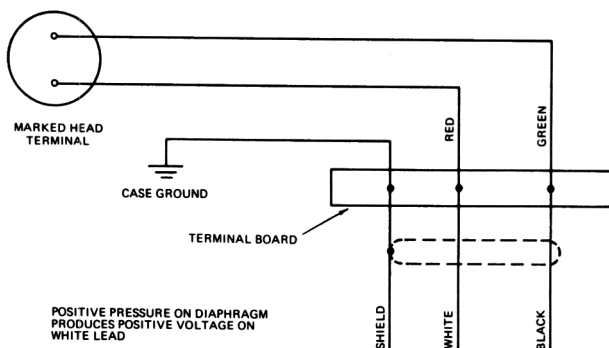


Figure 3 – Wiring Diagram