

## ECM-77BPT

Discrete omni-directional lavalier  
Electret condenser microphone



### Overview

The ECM-77 is probably the most often seen lavalier microphone on TV and it is used widely in both studio production and on location. Its popularity is based on a combination of excellent sound quality, robust construction and an attractive cosmetic design. This microphone is the ECM-77BPT which is supplied with pre solder bare wire ends

#### **Hands Free**

As a lavalier microphone, the ECM-77 is an alternative to the traditional hand held microphone and being 'hands free' it allows the presenter to concentrate on her/his performance.

#### **Professional Image**

The ECM-77 is probably the most seen microphone on TV and its compact design creates a professional image.

#### **Easy and Familiar Operation**

The ECM-77 is an essential tool for achieving good quality voice recording. The microphone's capsule is designed for voice pick-up with an extended frequency response and impressive sensitivity. The popularity of the microphone in TV production means that most sound people will be familiar with using the ECM-77.

## Features

### **Designed for high quality voice pick-up**

The ECM-77's capsule features a voice emphasis curve, extended frequency response and sensitivity.

### **Minute size**

The capsule has a diameter of only 5.6mm and is 12.5mm long.

### **Ready for other systems**

The ECM-77BPT version is supplied with pre-solder wire ends, allowing a convenient solution for interfacing the microphone with other types of connectors.

## Specifications

### Audio Section

Capsule Type	Electret Condenser
Frequency Response	40 Hz to 20 kHz
Directivity	Omni-directional
Sensitivity *[1]	-39.0 dB (11.2 mV)
Output Impedance * [2]	2.5kΩ±30%, Unbalanced
Dynamic Range	90 dB or more
Signal-to-Noise Ratio *[3]	64 dB or more
Inherent Noise *[4]	30 dB SPL or less
Induction Noise From	

External Magnetic Field *[5]	5 dB SPL or less
Wind Noise *[6]	40 dB SPL or less (with windscreen)
Maximum Input Sound Pressure Level *[7]	120 dB SPL

## General Section

Connector	No connector (Pigtail)
Mic Cable	9.8 feet 3 m
Power Requirements	DC 1.1 V to 10.0 V
Power Consumption	0.4 mA or less
Dimensions *[8]	φ 5.6 X 12.5 mm (Mic head) φ 1/4 X 1/2 inches (Mic head)
Mass	Approx. 22.7 g Approx. 0.8 oz
Supplied Accessories	Single/horizontal type tie clip (1) Metal-mesh type windscreen (1)  Wind screen pack Vertical clip pack Safety pin type clip pack

Optional Accessories	Horizontal double-clip pack Horizontal single-clip pack ECM-77 accessory kit Colored wind screen kit Black windscreen for ECM-77
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## Notes

Note	<p>*[1] 0 dB = 1 V/Pa, at 1 kHz</p> <p>*[2] Output impedance at 1 kHz</p> <p>*[3] A-weighted, 1 kHz, 1 Pa.</p> <p>*[4] 0dB SPL = 20 <math>\mu</math>Pa</p> <p>*[5] dB SPL/1E-7 T, 0 dB SPL = 20 <math>\mu</math>Pa</p> <p>*[6] Wind noise at 2m/s (0 dB SPL = 20 <math>\mu</math>Pa)</p> <p>*[7] 0 dB SPL = 20 <math>\mu</math>Pa</p> <p>*[8] The values for dimensions are approximate.</p>
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## Gallery

