

## 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 *<br>[2]     | 2.5kΩ±30%, Unbalanced |
| Dynamic Range                 | 90 dB or more         |
| Signal-to-Noise Ratio<br>*[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<br>3 m                                                       |
| Power Requirements   | DC 1.1 V to 10.0 V                                                    |
| Power Consumption    | 0.4 mA or less                                                        |
| Dimensions *[8]      | $\phi$ 5.6 X 12.5 mm (Mic head)<br>$\phi$ 1/4 X 1/2 inches (Mic head) |
| Mass                 | Approx. 22.7 g<br>Approx. 0.8 oz                                      |
| Supplied Accessories | Single/horizontal type tie clip (1)<br>Metal-mesh type windscreen (1) |
|                      | Wind screen pack<br>Vertical clip pack<br>Safety pin type clip pack   |

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

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|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

