



# TECHNICAL DATA SHEET

## CANFORD MINIATURE LAVALIER MICROPHONES

**91-141** MINIATURE LAVALIER MIC LM3 (BLACK)

**91-142** MINIATURE LAVALIER MIC LM3 (BEIGE)

These microphones use electret type transducer elements and they have been wired through to bare ends for the customer to fit the appropriate connector. The elements require a standard bias voltage of 1.5 to 10VDC to function.

### CONNECTION

The use of the three-wire connection method will achieve the minimum quiescent current drain and most radio microphone systems support this connection method. In all cases on the Beige version, the screen connection must be connected to the 0VDC line at the microphone connector. On the Black version the Screen is ground referenced already.

### TERMINATION:

The termination protocol is as follows:

\*\*\*\*\*FOR 91-142 LM3 Beige ONLY\*\*\*\*\*

Blue : +VDC

Yellow : Signal

Green : 0VDC

Screen : Ground Connection

\*\*\*\* FOR 91-141 LM3 Black ONLY \*\*\*\*

Red : +VDC

Green : Signal

Screen : -VDC

(Only applies from October 2000 : For earlier models see previous Termination Instructions)

### IMPORTANT:

The 91-141; 91-142; 91-143 and 91-144 microphones all use a common moulded part on both beige and black models and are identical in appearance. However the internal transducer elements are very different between the bandwidth limited and the broadcast quality models. If there is any uncertainty to the identity of these microphones, the broadcast quality models (91-141 & 91-142) have a small red dot on the body of the microphone.

### TECHNICAL SPECIFICATION

**Frequency Response:** 20 - 20k Hz ("3dB)

**Supply Voltage Range:** 2 - 10VDC

**Nominal Impedance:** 2.5k ohms

**Dimensions:** 15mm (Length) x 6mm (diameter)