BBC Engineering Design Information

DESIGNS DEPARTMENT LIAISON UNIT BBC LONDON W1A 1AA 01-580 4468 EXT. 4345

Microphone Amplifier AM9/14

This amplifier is intended to be used with microphones of 200Ω/300Ω impedance. It is a low-noise device, comprising an input transformer and two separate fixed-gain amplifying-stages, with provision for the connection of an external gain-control between the stages. The maximum output-level is +13dB into a load of 1.2kΩ, and the maximum gain is 50dB.

The amplifier is constructed on a printed-circuit board measuring 190mm x 51mm, to which connections are made by soldering to tags. A supply of d.c. at -24V is required.

GENERAL DATA

Power Requirement	46mA d.c. at -24V
Frequency Response	+0.2dB, -0.5dB, 50Hz-15kHz +0.2dB, -1.5dB, 20Hz-20kHz
Gain (maximum)	50dB
Input Impedance	1.6kΩ
Output Impedance	83Ω
Output Level (maximum)	+13dB into 1.2kΩ
Output Noise Level (with input terminated in 300Ω)	Less than -75dB
Total Harmonic Content of output-signal (measured with output of +12dB into 1.2kΩ)	Less than 0.1% at 1kHz

For further information, please contact R.N. Robinson, Room 210, Western House (PABX BH 3862).