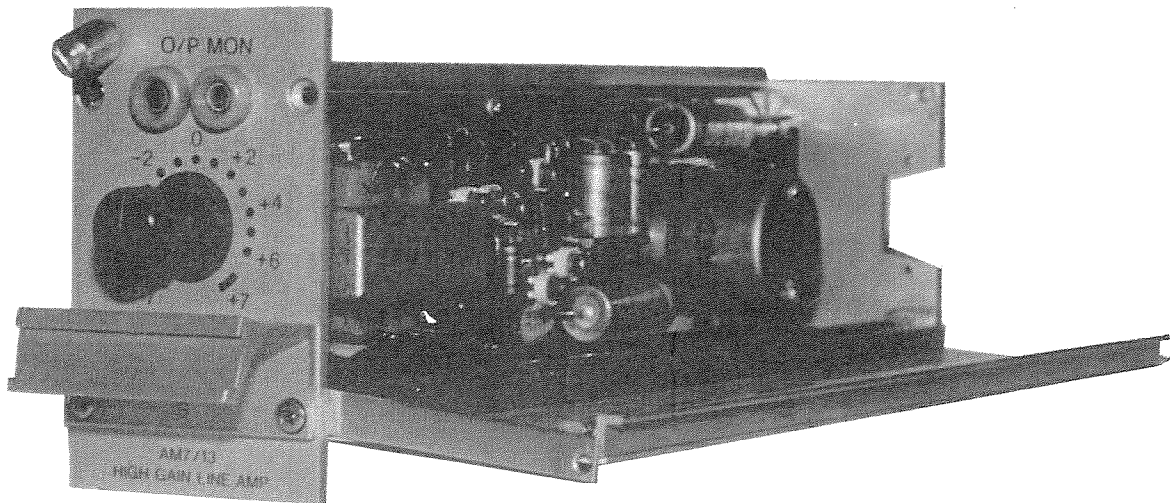




## Audio Line Receiving Amplifier AM7/13



This is a variable gain amplifier for receiving programme signals from Post Office or internal lines. It can also be used as a line sending amplifier. The amplifier accepts a signal in the programme level range  $-62\text{dB}$  to  $-8\text{dB}$  and provides two outputs, one for sending to a single line and one for sending to a number of lines via separate series resistors. The outputs are not isolated from each other and both are intended to drive high impedance loads although the distribution output will provide full output into impedances down to  $50\Omega$ . The gain of the amplifier can be preset in  $10\text{dB}$  increments from  $15\text{dB}$  to  $55\text{dB}$ , with fine adjustment of  $+7\text{dB}$  to  $-7\text{dB}$  from a front panel control.

### SPECIFICATION

Input Level	: $-62\text{dB}$ to $-8\text{dB}$ Programme
Input Impedance	: $18\text{k}\Omega$ balanced
Frequency Response	: $50\text{Hz}$ to $15\text{kHz} \pm 0.2\text{dB}$
Signal to Noise Ratio	: $>62\text{dB}$
Total Harmonic Distortion	: $<0.1\%$
Gain	: $15\text{dB}$ to $55\text{dB}$ (Preset) : $\pm 7\text{dB}$ (Variable)
Output Level (Single)	: $0\text{dB}$ Programme
(Distribution)	: $0\text{dB}$ Programme
Output Impedance (Single)	: $50\Omega$ balanced
(Distribution)	: $5\Omega$ balanced
Clipping Level (Single)	: $+18\text{dB}$ into high impedance
(Distribution)	: $+16\text{dB}$ into $50\Omega$
Power Requirement	: $+12\text{V}$ at $80\text{mA}$ d.c. and $-12\text{V}$ at $80\text{mA}$ d.c.

Manufacturing Information for BBC designed equipment is available for commercial exploitation. For further information please contact the Liaison Engineer at the above address.