

Video & audio splitter

This circuit was designed to connect three video monitors to one video cassette recorder. The circuit is divided into an audio and a video section. The audio signal from the VCR is buffered by emitter followers and provides unity gain and a low output impedance drive.

The video amplifier has unity gain with a bandwidth (-3 dB points) of 5 Hz to 58 MHz. Up to 6 dB gain is possible by progressively reduc-

ing R1 but the upper -3 dB point falls to around 10 MHz, with no compensation capacitor. A bridge/terminate switch is provided if a monitor at the sending end is required. The amplifier limits at 2.2 Volts into 75 ohms which should give sufficient headroom. Heatsinks may be needed on the output transistors. Typical dc voltages are shown on the circuit diagram.

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