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Inexpensive junction-FETs such as the E 300 or U 1994 E - already popular in HF-circuits - can also often be applied advantageously to LF-circuits.

In a small audiomixer, for example, the use of JFETs leads to a great saving in components because of the relative simplicity of the biasing arrangements. The input impedance of each channel is determined only by the value of the potentiometer used.

FET- mixer

The number of input channels can be considerably extended, if required, provided that the common drain load resistor (R1) is suitably chosen. Its value is the standard value closest to $\frac{22 \text{ k}}{n}$, where n is the number of input channels.

For other types of JFET it may be necessary to change the value of source resistor and/or the supply voltage. The frequency response of the circuit shown has -3 dB points at about 20 Hz and 80 kHz.

