

Switching audio signals digitally could be done with the aid of CMOS analogue switches or multiplexers. Simple as this may seem, there is, however, an inevitable loss in the quality of the sound due to the noisy nature of CMOS switches. Furthermore, the high on-resistance of these devices together with the large parasitic capacitances generally present in

CMOS circuits causes a high susceptibility to crosstalk. The circuit given here is a novel way of selecting one out of ten audio signals digitally without any of the foregoing drawbacks.

As shown in the circuit diagram, the ten input signals numbered 1-10 are applied to the bases of transistors T_1 - T_{10} via capacitors C_1 - C_{10} respect-

