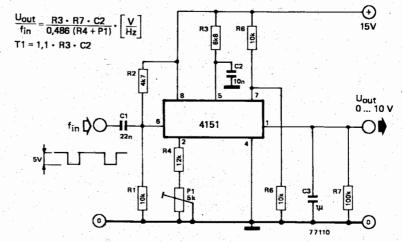


frequencyvoltage converter



This frequency-voltage converter is distinguished by its markedly linear conversion ratio. With the given component values the conversion ratio of the circuit is 1 V/kHz. If a DC voltage is applied to the input (0 Hz) then the output voltage is 0 V. The duty cycle of the squarewave input signal has no effect upon the conversion ratio. However, if sinusoidal signals are to be converted to a DC-voltage, then the converter-IC should

The circuit can also be connected to the output of a voltage-frequency converte and used as a means of transmitting DO signals over a long cable without the cable resistance attenuating the signal.

be preceded by a Schmitt trigger. Othe

conversion ratios can be calculated using

RAYTHEON product specifications

the formulae shown in the diagram.