

ATTENUATOR ladders are frequently found at the input to test gear. Circuits similar to Fig.1. and Fig.2. are both common, and both use some resistors of non-preferred values. The 11.111ohm resistor is often approximated by 10R and 1R in series.

I use the circuit of Fig.3. For the addition of one resistor we can now make the ladder using only preferred values – the parallel pair of 150R and 12R (or its appropriate decade multiples) giving exactly the required value of 11.111R, as accurately as the tolerance of the resistors chosen.

## Attenuator Dividers

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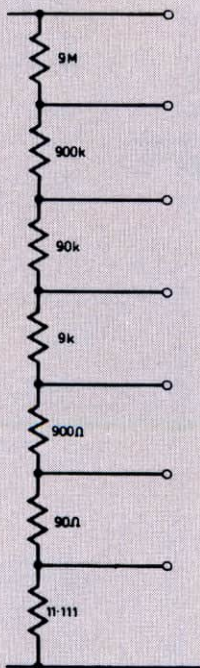


FIG. 1

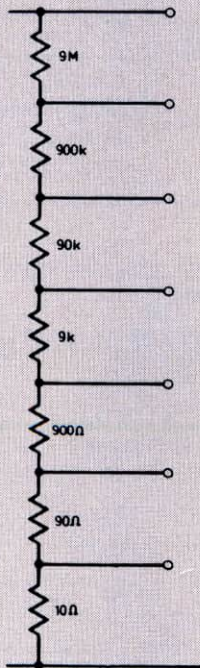


FIG. 2

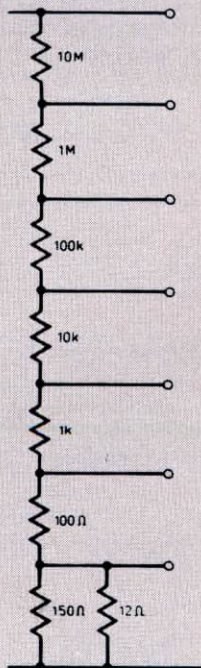


FIG. 3