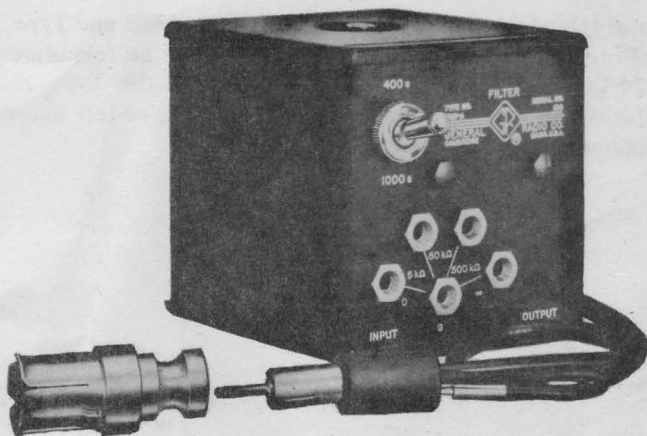


W6W

Operating Instructions for Type 1951-E Filter



Type 1951-E Filter

The Type 1951-E Filter is a parallel-resonant L-C circuit tuned to 270 or 1000 cycles per second, $\pm 2\%$. It is designed for use at the input of a high-gain amplifier such as the GR Type 1212-A or Type 1231-B, to attenuate large-amplitude spurious signals before they can overload the amplifier. This feature is particularly useful in measurements of direct capacitance by the three-terminal method or by other methods in which portions of the circuit under test are floating above ground and subject to pickup of external voltages. A capacitive divider on the input side allows the filter to be operated at close to optimum conditions regardless of the impedance it sees at its input.

The inductor of the Type 1951-E Filter is wound on a molybdenum-permalloy dust-core toroid and enclosed in a permalloy shield.

Maximum Allowable RMS Input Voltage

Input Impedance Range	1000 \sim	270 \sim
0 - 5K Ω	14 v	4 v
5K Ω - 50K Ω	56 v	16 v
50K Ω - 500K Ω	200 v	58 v
500K Ω - - -	280 v	165 v

All circuit elements are shielded against electrostatic pick-up. These precautions are taken so that the filter may be used at the very low voltage levels encountered at the input to high-gain amplifiers such as the General Radio Type 1212-A or Type 1231-B. Any pick-up that remains can usually be eliminated by properly positioning and orienting the filter.

If a shielded input is desired, the Type 274-MB and Type 274-ND Double Plugs may be used. The output cord may be terminated in the Type 874-Q6 Adaptor for Type 874 Connectors, the Type 274-MB or Type 274-ND for 3/4 inch spaced binding posts, or left unterminated for telephone tip leads.

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