HUGGINS LABORATORIES
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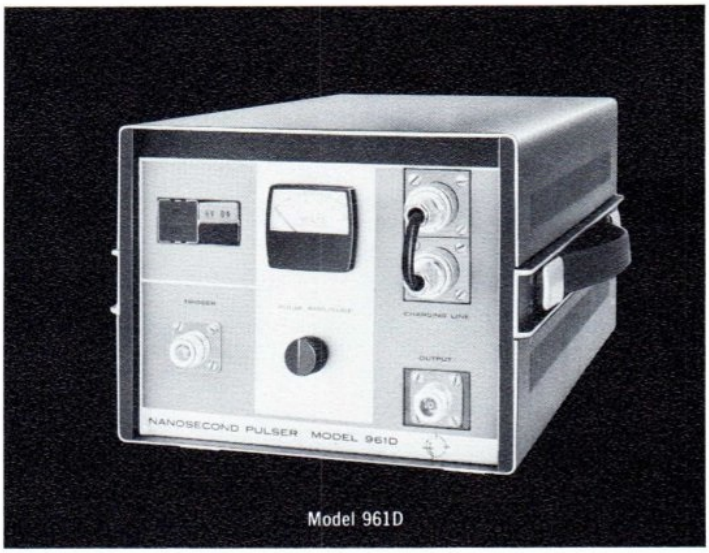
NANOSECOND PULSE GENERATORS



Model 961D

USES

- simulating scintillations for multiplier arrays
- photosynthesis timing
- impedance measurements
- multiplier phototube testing
- nanosecond response of photosensitive devices
- magnetic materials research

Here is a high level pulse generator which produces a 2 kilovolt pulse 2 to 20 nanoseconds wide with a half nanosecond rise and fall time. The Huggins 961D Pulse Generator may be used to excite a single nanosecond light source (such as the PEK 118) which requires no more than a 2 Kv pulse into 51 ohms. By using Huggins 961-T Splitting Transformers, this Pulse Generator will drive up to 64 nanosecond light sources which require a maximum 1 Kv pulse into 51 ohms.

When used with a nanosecond light source, the 961D can be used to simulate the scintillations from nuclear events or test the nanosecond response of photosensitive devices. The electrical pulse from the 961D is also used to measure the impedance of transmission lines. Further, the Model 961D Pulse Generator proves valuable in magnetic materials research.

GENERAL SPECIFICATIONS

Pulse Amplitude: Variable from 0 to 2000 volts with front panel control. Relative height given by front panel indicator which can be used to repeat pulse heights within 5% from a previous time.

Pulse Shape: Positive, ½ nanosecond rise and fall time (from 10-90% of pulse amplitude), width variable from 2 to 20 nanoseconds by using different charging lines. Standard units are supplied with a 2 nanosecond pulse width. Please specify width desired.

Amplitude Pulse Jitter: 4% maximum.

Pulse Repetition Rate: Line frequency (50-60 cps); push button actuated "single" pulse operation.

Output: 51 ohms; Type N, female.

Trigger Pulse Amplitude: 15 volts maximum at 2 Kv pulse output.

Trigger Pulse Shape: Positive leading edge, ½ nanosecond rise time (from 10-90% of trigger pulse amplitude), 2 to 20 nanoseconds wide, 70% maximum overshoot.

Trigger Output: Type UHF, female.

Remote Operation: Pulse generating module may be easily removed from the instrument, 18-inch cable provided.

Power Input: 961D; 115 vac, 50-60 cps, 25 watts.
961DA; 220 vac, 50-60 cps, 25 watts.

Size: 6-7/32" x 8-1/2" x 13-3/4" (HxWxD).

Weight: Approximately 30 pounds.

PRICES

Model 961D Generator: $900.00

Model 961DA Pulse Generator: $950.00

Charging Lines (other than 2 nanosecond): $25.00

Model 961-T Splitting Transformer: $75.00