SOLAR ELECTRONICS COMPANY
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Model 9355-1 Pulse Generator

for MIL-STD-461-D/E CS115 susceptibility test

DESCRIPTION

APPLICATION

The **Solar Model 9355-1 Pulse Generator** is designed to provide impulse excitation by means of an injection probe placed around interconnecting cables or power wires. The unit uses a charged transmission line (50 Ω) to generate a pulse with less than 2 nS rise and fall time, and duration of approximately 30 nS, calibrated in a 50 Ω fixture to deliver up to 5 A at a rate of 30 pulse per second for one minute as required by MIL-STD-461D/E/F, Test Method CS115.

DESCRIPTION

The charged line potential of the **Model 9355-1** is adjustable from less than 2 V to approximately 2000 V. The repetition rate is variable from less than 0.6 pulse per second to greater than 150 pulse per second, or single pulses manually triggered by a panel mounted pushbutton. Digital displays monitor the charging voltage and pulse repetition rate.

FEATURES

- Panel mounted digital meters monitor the adjustable charged line voltage and pulse repetition rate
- Adjustable pulse rate from 0.6 pulse per second to 150 pulse per second, and manual triggering via front panel pushbutton
- Charged line output voltage adjustable from 1.0 V to ≈2000 V

SPECIFICATIONS

OUTPUT PULSE

Charging voltage: Adjustable from 0 to ≈2000 V
Rise/fall time: <2 ns
Duration time: 35 ns
Pulse repetition rate: 0.6 pulse per second to 150 pulse per second
Polarity: ± selectable
Output load: 50 ± j 0 Ω
Dimensions: 12.25" wide x 8.7" high x 13" deep (31.1 cm x 21.1 cm x 33.0 cm)
Weight: 27 pounds (12.24 kg)
Shipping weight: 30 pounds (13.60 kg)

USEFUL ACCESSORIES

ACCESSORIES RECOMMENDED FOR CS115 TESTING

Solar Type 9233-50-TS-50-N Line Impedance Stabilization Network

Solar Type 9125-1 Calibration Fixture
Used to calibrate probes with a window size from 1.25" to 1.50" and a frequency range of 20 Hz to 500 MHz

Solar Type 9142-1N Current Injection Probe
with a frequency range of 2 MHz to 500 MHz, 200 W

Solar Type 9123-1N Current Monitor Probe
with a frequency range of 10 kHz to 500 MHz, 1.25" window

Solar Type 9410-1 High Voltage 40 dB Attenuator
The Type 9410-1 high voltage 50 ohm attenuator has an insertion loss from dc to ± 1.5 dB and 40 dB ± 3 dB from 100 MHz to 1 GHz dc to 100 MHz of 40 dB, and an average wattage dissipation capability of 2 watts. The attenuator will reduce the pulse voltage (a result of 6 amperes flowing through 50 ohms = 300 V max.) from exceeding most oscilloscope limitations. (See your oscilloscope manual for more details on 50 ohm input).

Solar Type 9841-1 1000 V Termination
50 Ω coaxial 1 W average power. Typical input VSWR in a 50 Ω system under 1.5 from DC to 1 GHz

Custom Quotes
To meet the needs of our clients, Solar Electronics Company engineers are in the lab every day, designing new products and expanding our line. If you don't see a Solar product that suits your application, please send us your specifications so we can provide a solution.

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Specifications subject to change without notice.

All Solar Electronics products are made in the USA.