



Model 9355-1 Pulse Generator for MIL-STD-461-D/E/F/G 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 35 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/G, Test Method CS115.

DESCRIPTION

The charged line potential of the **Model 9355-1** is adjustable from less than 10 V to approximately 1900 V. The repetition rate is variable from less than 1.0 pulse per second to 120 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 less than 1.0 pulse per second to 120 pulse per second, and manual triggering via front panel pushbutton
- Charged line output voltage adjustable from 10 V to ≈ 1900 V



SPECIFICATIONS



OUTPUT PULSE

Charging voltage: Adjustable from 0 to ≈ 1900 V

Rise/fall time: < 2 ns

Duration time: 35 ns

Pulse repetition rate: < 1.0 pulse per second to 120 pulse per second

Polarity: $\pm$ selectable

Output load: $50 \pm j 0 \Omega$

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 of 40 dB $\pm$ 1.5 dB from 100 Hz to 100 MHz and 40 dB $\pm$ 3 dB from 100 MHz to 1 GHz and an average wattage dissipation capability of 2 watts. The attenuator will reduce the pulse voltage by a factor of 100 to 1 (40 dB). 250 volts will be developed when 5 amperes is flowing through the 50 ohm input of the attenuator. Therefore, once the attenuation factor is applied, the voltage present at the output of the attenuator will be 2.5 volts. (250 volts – 40 dB = 2.5 volts). 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. If you don't see a Solar product that suits your application, please send us your specifications so we can provide a solution.

800-952-5302
or
online quotes form

Terms

Orders / Production / SHIP TO

800-952-5302
818-755-1700
fax: 818-755-0078
sales@solar-emc.com
10866 Chandler Blvd.
North Hollywood, CA 91601

Map link

Service Support

service@solar-emc.com

Webmaster

Billing Inquiries / PAYMENTS

accounting@solar-emc.com
5238 Laurel Canyon Blvd.
North Hollywood, CA 91607
Do not ship to Laurel Canyon address.

Specifications subject to change without notice.

All Solar Electronics products are made in the USA.

©2017 Solar Electronics Company.
All rights reserved.