

# EMC Test Equipment Catalog



- Electrostatic Discharge Simulator
- Impulse Noise Simulator
- Fast Transient / Burst Simulator
- Lightning Surge Simulator
- Voltage Dip & Swell Simulator
- Damped Oscillatory Wave Simulator
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- EMC Test Systems for Automotive Electronics

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www.noiseken.com

# High Frequency Surge Test (Burst Waveform) SWCS-931SD

Simulator to reproduce damped oscillatory wave which is gradual damping noise and evaluate the immune resistibility of DUT against the noise.

More high reliability and high accuracy have been realized comparing to the previous model with adaption of the semiconductor switch.

- High accuracy realized with adaption of the semiconductor switch.
- Variable from 0.4 Hz to 400 Hz as the repetition frequency
- Easy to switch the coupling capacitor.



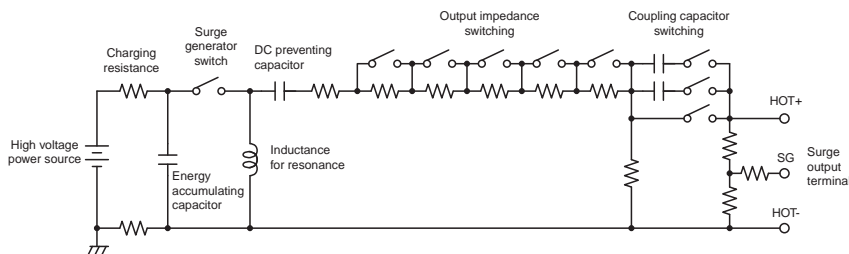
## Specification

Parameter	Specification
Output waveform	Damped oscillatory wave
Output voltage	100 V ~ 1500 V
Polarity	Positive (1st wave) or negative (short bar switching)
Oscillatory frequency	1.5 MHz $\pm$ 0.2 MHz
Time to half-value peak	10 $\mu$ s $\pm$ 20 % (0.1 kV ~ 1.0 kV) 10 $\mu$ s $\pm$ 40 % (1.0 kV ~ 1.5 kV)
Output impedance	50 ~ 200 $\Omega$ (10 $\Omega$ pitch set possible)
Repetition cycle	0.4 ~ 400 Hz (3-stage switching, continuously variable)
Injection time	1s ~ 10min. or continuous
Coupling capacitor	100 pF / 470 pF
EUT power capacity	-
Power supply	AC 100 ~ 240 V 50 / 60Hz
Dimensions	(W) 430 x (H)200 x (D)400 mm
Weight	Approx. 7 kg

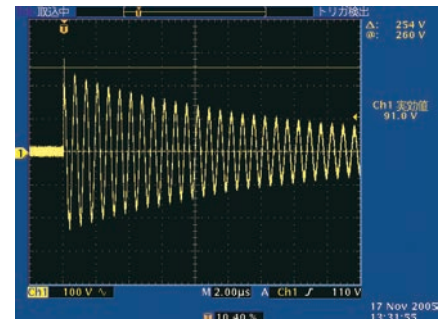
## Accessory

Item	Q'ty
Bag for accessories	1 pc.
Instruction manual	1 volume
Power cable	1 pc.
Short bar	1 pc.

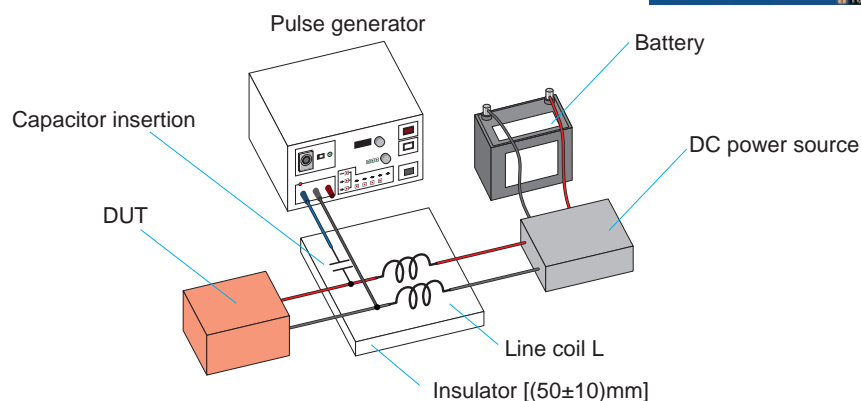
## Inside Circuit



## Output Waveform



## Test Setup



## Test procedure example used the damped oscillatory wave simulator

- ① Place the main simulator unit (hereinafter referred to as Main unit) onto the outside of the ground reference plane.
- ② Connect the standard attached power supply cable to AC in on the backside of Main unit.
- ③ Connect the connection cables for DUT to HOT terminal and ground terminal on Main unit (insert a capacitor to HOT side), and do the other side of the cables to the testing harnesses. \* The connection cables to be prepared by the users.
- ④ Set the parameters on the controller on the front panel of Main unit and start the test.