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

A damped oscillatory wave simulator simulates the fast-repeating, high-frequency noise that occurs when switches turn on and off, and evaluates the resistance of electronic and electrical equipment.

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

- A maximum output voltage of 1.5 kV
- Repetition frequency variable from 0.4 Hz to 400 Hz
- Output resistance variable from 50 to 200 Ω (10Ω step)



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

## Internal Circuit



## Test procedure example using the damped oscillatory wave simulator

① Place the main simulator unit (hereinafter referred to as the Main unit) onto the outside of the ground reference plane.

- (2) Connect the included power supply cable to AC IN on the backside of the Main unit.
- ③ Connect the DUT connection cables to HOT and GND terminals of the Main unit (insert a capacitor to HOT side), and connect the other side of the cables are to the testing harnesses. \* The connection cables to be prepared by the user.

Line coil L Insulator [(50±10)mm]

④ Set the injection voltage and other parameters of the controller part of the Main unit's front panel and start the test.