NoiseKen®

DAMPED OSCILLATORY WAVE SIMULATOR

SWCS series

MODEL: SWCS-931SD

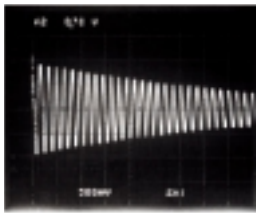
MODEL: SWCS-934

Conforming to IEC255-4 (Appendix E), JIS C4602

MODEL: SWCS-932/S4

Conforming to ANSI/IEEE C37.90/1989

Surge Withstand Capability Simulators to carry out a surge test for Automotive Electronics, for IEC255-4 and JIS C4602, or for ANSI/IEEE C37.90 1989.



Damped oscillatory wave
V: 500V/Div
H: 2 μs/Div

Specifications

Model / Parameters	SWCS-931SD	SWCS-934	SWCS-932/S4
Surge waveform	Damped oscillatory wave	Damped oscillatory wave	Damped oscillatory wave
Output voltage	100V~1,500V	1,000V~3,000V	1,000V~4,000V
Polarity	Positive or Negative	Positive (First peak)	Positive (First peak)
Oscillation cycle	1.5MHz±0.2MHz	1MHz±10%	1MHz~1.5MHz (Fixed within this range)
Envelope decay time required to attain half peak value	10 μs±20% (0.1kV~1.0kV) 10 μs±40% (0.1kV~1.5kV)	3~6 cycles (at 2.5kV)	> 6 μs from 100% to 50%V
Risetime	< 100ns	N.A.	< 100ns
Switching mode	Semi-conductor	Gap discharge	Semi-conductor
Output impedance	50~200Ω (10Ω step)	200Ω ±10%	150Ω +20%/-0%
Repetition cycle	0.4~400Hz (3 stages selectable)	2.5ms (400Hz)	50Hz/60Hz
Duration time	1~10s or Continuous	1~10s	1~10s
Coupling capacitor	0.047 μF/100pF/470pF	0.5 μF	0.1 μF
EUT power capacity	N.A.	AC240V/10A, Single or three phase, DC120V/10A	AC240V/20A, Single or three phase, DC125V/20A
Power supply	AC100~240V, 50/60Hz	AC100V, 50/60Hz	AC100V, 50/60Hz
Dimensions (mm)	(W)430 x (H)200 x (D)400	(W)420 x (H)200 x (D)403	(W)430 x (H)200 x (D)400
Weight	Approx. 7kg	Approx. 20kg	Approx. 12kg

Standard accessories

- Line input cable x 1
- Shorting bar x 1
- Fuse x 2
- Resistor connector
- Accessory bag x 1
- Instruction manual x 1

Designs and specifications are subject to change without notice.

NOISE LABORATORY CO., LTD. 1-4-4, Chiyoda, Sagamihara-City, Kanagawa-Pref., 229-0037, Japan www.noiseken.com