

ISO Standard Compliant Automotive Transient Surge Simulator

ISS-7810



Make EMC Test Easier !

www.noiseken.com

NOISEKEN NOISE LABORATORY

ISO Standard Compliant Automotive Transient Surge Simulator

ISS-7810

For a secure and safe mobility society

Technological innovation called "CASE" (Connected, Autonomous/Automated, Shared, Electric) is diversifying at an unprecedented pace in automotive development. As the electrification of automobiles progresses, it is becoming increasingly important to check the EMC resistance of electronic devices in vehicles due to mutual interference.

The ISS-7810 is a simulator that outputs transient surges required by the international standard ISO 7637 for verifying the noise immunity tolerance of automotive electronic devices.

- Perform testing in compliance with ISO 7637-2 and ISO 7637-3 Standards.
- Perform various 12V / 24V tests.
- Mounted on a space-saving vertical rack.
- A wide variety of options such as coupling clamps and waveform verification is available.
- The included remote control software allows individual test sequences setting.
- Highly operable and intuitively user-friendly integrated remote control software.

*Please contact our sales representative for detailed specifications.

System overview

The ISS-7810 is a rack-mounted test system with separate pulse units. It has excellent expandability and can be equipped with pulse 5a/5b and Slow pulse +/- if necessary (*1).

In addition, sequence tests and reports can be created by controlling the entire system with software using a PC.

	ISO 7637-2				ISO 7637-3				
MODEL	2011 edition			2004 edition		2007 edition			
	pulse 1/2a	pulse 2b	pulse 3a/3b	pulse 4	pulse 5a/5b	Fast pulse a	Fast pulse b	Slow pulse +	Slow pulse -
ISS-7810	0	0	0	0	*1	0	0	*	1

*1 - to be introduced in 2024; model names are subject to change



Automotive Transient Surge Simulator MODEL : ISS-7810



0

*Product image is for illustration purpose only. Actual product may vary.

ISS-7810

Specifications

Test Pulse Generator Unit P1/2a

Parameter	Specifications				
Farameter	pulse 1 (12V)	pulse 1 (24V)	pulse 2a (12V / 24V)		
Output voltage (Us)	-10V ~ -330V Step -1V	$-20V \sim -600V$ Step $-1V$	20V ~ 330V Step 1V *setting available from 12V		
Output impedance (Ri)	4、10、20、30、50、90Ω	30、50、90Ω 10、20、30、50、90Ω			
Pulse width (td)	1、1.75、2、6ms	0.05、1、2ms			
Rise time (tr)	1(+0/-0.5)、2(+0/-1.0)、3(+0/-1.5)µs	1(+0/-0.5)µs			
Pulse repetition time (t1)	0.5s ~ 99s Step 0.1s	0.2s ~ 99s Step 0.1s			
<u> </u>	↓ t2	۸	·		





pulse 1



Test Pulse Generator Unit P3a/3b & CDN

Parameter	Specifications			
Parameter	pulse 3a (12V • 24V)	pulse 3b (12V / 24V)		
Output voltage (Us)	$-10V \sim -350V$ Step $-1V$	$10V \sim 350V$ Step 1V		
Output impedance (Ri)	οΩ			
Pulse width (td)	se width (td) 0.15 (±0.045) µs			
Rise time (tr) 5 (±1.5) ns、 3.5ns max				
Pulse repetition time (t1)	10μs \sim 1000μs Step 1μs			
DUT power capacity	DC60V / 50A			



Bipolar Power Supply BP4610 P2b/4

Parameter	Specifications		
Parameter	pulse 2b (12V · 24V)		
UA, US	$0 \mathrm{V} \sim 60 \mathrm{V}$ Step 1V		
Ri	$0\Omega\sim 0.05\Omega$		
td	0.1s、0.2s、0.5s、1s、2s、4s		
t12、tr、t6	1ms、2ms、5ms		



Parameter	Specifications	
Parameter	pulse 4 (12V · 24V)	
UB	$0 \mathrm{V} \sim 60 \mathrm{V}$ Step 1V	
Us, Ua	0V \sim 60V Step 1V (less than UB)	
Ri	$0\Omega \sim 0.02\Omega$	
t7、t8、t10、t11	1ms \sim 999ms Step 1ms	
t9	0.1s \sim 99.9s Step 1ms	



pulse 4

ISS-7810



Remote control software

Dedicated software for remote control of ISS-7810 allowing to easily conduct each pulse test required by the Standard. Sequence tests are also available, in which test pulses and test levels are combined in any order, and parameters such as surge voltage, internal impedance, and pulse width can be set to sweep.



Combine test pulses and test levels in any order.

Sweep settings for surge voltage and internal impedance available.

[Note] It is prohibited to copy or reprint all or part of this catalog without permission. Product specifications and appearance are subject to change without notice. The model name and price may change or production may be discontinued due to various reasons. Please contact our sales representative for any questions regarding your order or contract. We may not be liable for any responsibilities us aupoced to be used under the supervision of a supervision who has sufficient knowledge in use. It is not a product designed and manufactured for general households and consumers. Due to printing reasons, there may be differences in color and texture between the photos listed in the catalog are contact. We make our best efforts to provide accurate information about the contents of this catalog, but if you notice any typographical errors, please contact our sales office.



http://www.noiseken.com

International Sales & Marketing Section 1-4-4 Chiyoda, Chuo-ku, Sagamihara City, Kanagawa Pref. 252-0237 Japan TEL: +81-(0)42-712-2051 FAX: +81-(0)42-712-2050 E-Mail:sales@noiseken.com