

High-Voltage Noise Simulator

HNS 200

Datasheet



In Compliance with

> Toyota TSC0502G Fig.29

Introduction

High-voltage noise simulator HNS 200 is designed according to Toyota TSC 0502G Fig.29 to simulate HV noise generated within vehicles, and the generator can be customized. The max current of the built-in coupling network can reach 100 A. HNS 200 can be connected with APS/APG series as the integrated output terminal to connect to DUT. The simulator interconnected with PC via data bus and Ethernet comprises the whole testing system.

Features

- > 5.7" color touch screen front panel;
- > Built-in HV noise module;
- > In compliance with Toyota TSC 0502G;
- > Built-in coupling network (incl. load dump coupling), 60 V, 30 A;
- > DUT voltage/current detection, and over-current protection;
- > Ethernet RJ 45 for PC remote control and test report printing;

Application Areas

- > Automotive

Technical Parameters		
Test Mode	Continuous mode	EFT mode
Pulse Amplitude (Vpp)	5 - 250 V	
Pulse Frequency	1 kHz - 50 kHz	100 - 1,000 kHz
EFT Frequency	N/A	1 Hz - 100 Hz
No. Of Pulses In EFT	N/A	1 - 10
Test Time	1 – 9,999 s	
Coupling Network Capacity	DC 60 V, 30 A	
Testing & Controlling (Triggering circuit)		
Output	With 50Ω co-axial connector (applicable to tests connecting with capacitive clamp)	
Coupling Method	To positive pole of battery (for tests on power supply line)	
CRO Trigger	To trigger the 5 V signal of oscilloscope	

General Parameters	
Power supply	AC 110 / 220 V, ±10%, 45-65 Hz (Default configuration is 220 V, 50 Hz for Mainland China)
Operating temperature	15 °C - 35 °C
Relative temperature	35%-85%RH (no condensation)
Dimension	450 × 600 × 177 mm (4U cabinet)
Weight	Approx. 20 kg

Optional Accessory: Capacitive Coupling Clamp - CCC 100		
Size Of Coupling Plane	1,000 x 140 mm	
Height Of Coupling Plane	100 mm	
Connector Type	BNC	
GND Connector	4 mm banana plugs	
EUT Cable	Diameter up to 40 mm	



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