



Induction Noise Resistance Simulator

INR 60

■ Toyota TSC0502G

— Features

- > 5.7-inch color touch screen front panel operation
- > Built in standard waveform, convenient and fast to operate
- > Ethernet and RJ45 interfaces, used for PC remote control and test reports printing
- > PC control software AutoLab is optional
- > The indicator light displays frequency selection for easy differentiation.

— Introduction

The INR 60 inductive noise immunity Tester is developed according to the Toyota TSC0502G Fig.22. It simulates the high-voltage noise waveform generated in a vehicle and can be connected to a remote PC via Ethernet to print a test report.

— Application Areas



Technical Parameters

Test Voltage	100 V ~ 600 V (0% ~ 10%) @ 0.1 MHz, 5 MHz, 10 MHz
	100 V ~ 500 V (0% ~ 10%) @ 100 MHz
	100 V ~ 600 V (0% ~ 10%) @ 30 MHz
	Note: 200 V (0% ~ 5%)
Pulse Waveform	Damped oscillatory wave
Pulse Oscillation Frequency	$\pm 10\%$: 0.1 MHz , 5 MHz , 10 MHz, 30 MHz
	$\pm 25\%$: 100 MHz
Rise Time (10% ~ 90%)	≤ 50 ns @ 0.1 MHz;
	≤ 10 ns @ 5 MHz, 10 MHz, 30 MHz, 100 MHz;
Attenuation Ratio	$V_{p5}/V_{p1} \geq 30\%$ @0.1 MHz, 5 MHz, 10 MHz, 30 MHz
	$V_{p3}/V_{p1} \geq 30\%$ @100 MHz
	Resistive load: $\geq 1,000 \Omega$
Source Output Impedance	50 Ω
Polarity	Positive
Repetition Time	100 ms @0.1 MHz;
	10 ms @5 MHz, 10 MHz, 30 MHz, 100 MHz
Duration	1 ~ 999 s
Test Interval	1 ~ 9,999 s
Counter	1 ~ 9,999
Trigger Mode	Automatic, manual, external trigger
Output Port	MC insulated port (Note: Calibration for pulses of 100MHz, a coaxial attenuator is needed. Attenuation ratio 1000:1, input impedance 1000 Ω , frequency 400 MHz or above; Calibration for pulses with frequency other than 100 MHz, a differential probe with a bandwidth of 200 MHz or higher is needed; Oscilloscope: 400 MHz or higher

General Parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 110 V/220 V, $\pm 10\%$, 50 Hz/60 Hz
Power Consumption	Max. 300 W
Fuse	6 A
Communication Mode	Ethernet LAN
Trigger Mode	Automatic, manual, external trigger
External Trigger Input	BNC, 5 V TTL
CRO Trigger Input	BNC, 5 V TTL
Run Control Input	BNC, 5 V TTL

General Parameters

Grounding Method	Flat grounding wire
Dimension	6U rack 550 (W)*450 (H)*280 (D) mm
Weight	Approx. 22 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, Grounding Wire, Fuse, User Manual

Optional Accessories

1	PC Software	Model: AutoLab > Support Windows 7/8/10 /11 operating systems > Supports Ethernet > Supports scheduling and test sequence, easy for operation > Supports single test and sequence test reports printing, and user-defined templates > Supports emergency stop for safe test	
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