

Induction Noise Resistance Simulator

INR 60



- Toyota TSC0502G – 2016 Part 6.3 Fig.22

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 printing test reports;
- > 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



Vehicles

Technical Parameters

Test Voltage Range	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	0.1 MHz \pm 10%, 5 MHz \pm 10%, 10 MHz \pm 10%, 30 MHz \pm 10%, 100 MHz \pm 25%
Pulse Rise Time (10%-90%)	\leq 50 ns @ 0.1 MHz; \leq 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: $\geq 1000 \Omega$
Source Output Impedance	50 Ω
Output Polarity	Positive
Pulse Cycle	100 ms @ 0.1 MHz; 10 ms @ 5 MHz, 10 MHz, 30 MHz, 100 MHz
Duration	1-999 s
Repetition Rate	1-9,999 s
Counter	1-9,999
Trigger Mode	Automatic, manual, external triggering
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	5.7-inch TFT touch screen
Working Power	220 V \pm 10%, 50/60 Hz
Fuse	6 A
Maximum Power Consumption	300 W
Communication Method	Ethernet
External Trigger Input	BNC, 5V TTL
CRO Triggers Output	BNC, 5V TTL
Operation Control Input	BNC, 5V TTL
Pulse Trigger Mode	Manual, automatic, externally trigger
Grounding Connection	Flat grounding wire
Dimension	6U rack, 550 mm (L) * 450(W) mm * 280 (H) mm
Instrument Weight	Approx. 22 kg
Ambient Temperature	15 $^{\circ}$ C ~ 35 $^{\circ}$ C
Atmospheric Pressure	86 kPa ~ 106 kPa
Relative Humidity	45% ~ 75%

Standard Accessories

Test Cables, Power Cord, Grounding Wire, Fuses (spare parts), User Manual, Factory Reports.

Optional Accessories

PC control software AutoLab

Supporting Windows 7/Windows 8/Windows 10/Windows 11, it is easy to use, with a beautiful and intuitive user interface. Various operational functions and standard testing libraries enable users to easily complete custom testing programs.

Users can customize any waveform (outside of the standard library);

It can automatically/manually identify the connected AutoLab testing equipment and perform automatic configuration;

The template based reporting feature can help users generate test reports flexibly.

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