



Inductive Noise Immunity Tester

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;
- > 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 standard. 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

General Parameters

Display	5.7-inch TFT touch screen
Scope of Working Power Supply	AC 110 V/220 V, $\pm 10\%$, 50/60 Hz (default AC 220V in China)
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 Triggering Method	Manual, automatic, externally triggered
Instrument Grounding Connection Method	Use a flat grounding wire
Chassis Size	6U L * W * H: 550 * 450 * 280 mm
Instrument Weight	About 22 kg
Environmental Scope	15 °C ~ 35°C
Pressure Range	86 kPa ~ 106 kPa
Humidity Range	45% ~ 75%

Technical Parameters

Test Voltage Range	0.1 MHz, 5 MHz, 10 MHz: 100 V -600 V (0% -10%) 100 MHz: 100 V - 500 V (0%-10%) 30 MHz: 100 V -600 V (0% -10%) Note: 200 V (0% -5%)
Pulse Waveform	Damped oscillatory wave
Pulse Oscillation Frequency	0.1, 5, 10, 30 MHz: $\pm 10\%$; 100MHz: $\pm 25\%$
Pulse Rise Time (10%-90%)	≤ 50 ns @0.1 MHz; ≤ 10 ns @ 5, 10, 30MHz, 100MHz; $V_{p5}/V_{p1} \geq 30\%$ @0.1、5、10、30 MHz; $V_{p3}/V_{p1} \geq 30\%$ @100 MHz
Attenuation Ratio	Resistive load: 1000 Ω or greater
Source Output Impedance	50 Ω
Output Polarity	Positive
Pulse Cycle	100 ms@0.1 MHz;10 ms@5 10, 30, 100 MHz
Pulse Output Mode	Continuous output
Duration	1-999 s
Trigger Method	Automatic, manual, external triggering
Output Terminal Form	MC insulated terminal (coaxial 1000:1 attenuator with input impedance of 1000 Ω for 100 MHz, bandwidth of 400 MHz and above); Differential probes with a bandwidth of 200 MHz or higher are used for other frequencies; Calibration requires the use of an oscilloscope with a bandwidth of 400 MHz or higher

Standard Accessories

Test wires, Power lines, Grounding Wires, Fuses (spare parts), Instructions, and 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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