High Frequency Noise Simulator INS 800

Datasheet

In Compliance with

> NECA TR-28

Introduction

The INS 800 high-frequency noise simulator is designed to simulate the interference generated when the relay is turned on or off as a representative of the inductive component. This type of interference contains a wide spectrum (up to 2 GHz) that is coupled, reflected, resonated, and amplified by the IC through the wiring of the power line and the printed circuit board inside the device, causing equipment failure.

The device can be used to evaluate the performance of electronic equipment against transient conducted interference, and can qualitatively test the anti-radiation performance of the anti-interference performance of the electronic equipment system and the grounding performance of the system, and apply it most in various interference simulators. Wide, one of the most practical instruments.

Features

> Floating output

> 5 scheduling tests

> Built-in 50 Ω termination resistor

> Manually select different pulse widths and coupling modes

> The coaxial short-circuit bar can easily realize the common differential mode test

> 5.7-inch color touch screen operation for PC interconnection

Application Areas

> Communication

> Telecom

> Medical

> Broadcast

> Technology

> Military

> Railway

> Avionics

> Electricity

> New energy Vehicle

Technical Parameters

Output Voltage	0.1 kV ~ 4 kV±10 %, Built-in 50 terminal load
Polarity	Positive or negative
Source Impedance	50 Ω
Rise Time	＜1 ns
Pulse Width	50 ns ~ 1000 ns (50 ns step)
Repetition Frequency	20 Hz ~ 60 Hz, ±10 %
Phase Sync	0 ~ 359°,±10 %（only L1 - L2）
EUT Capacity	AC 240 V 16 A、DC 60 V 16 A
Trigger Mode	Manual, auto, external
Test Time	Max. 99 s

Optional Accessories

1.Coupling/decoupling Network INSN 4032 	AC 380 V Three-phase-5-line 32 A Input voltage 4000 V
2.Coupling/decoupling Network INSN 4050 	AC 380 V Three-phase-5-line 50 A Input voltage 4000 V
3. Attenuator TFB 500 	Output impedance：50 Ω Attenuation ratio：500:1 Freq. range：DC ~ 400 MHz
4.Capacitive Coupling Clamp CCC 100(NMHV connection terminal) 	Coupling capacitance: 100 pF ~ 1000 pF DC 8 kV Insulation＞8 kV(1.2/50 μs) Dimension: 1040 ×140×110 mm
5.Current Injection Clamp BCIP-400 	Frequency： 10 kHz ~ 400 MHz Inner diameter：ϕ40 mm
Isolation Transformer, Calibration Adaptor	

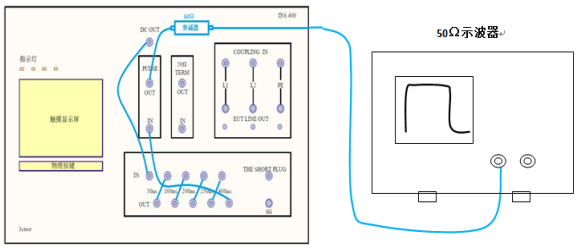
General Parameters

Mains Supply	AC 110/220 V，± 10%，50/60 Hz (default AC 220 V 50 Hz in mainland China)
Ambient Temperature	45 % ~ 75 %RH（no condensing）
Relative Humidity	15 ℃ ~ 35 ℃
Size	21 inch，6 U
Weight	Approx. 30 kg

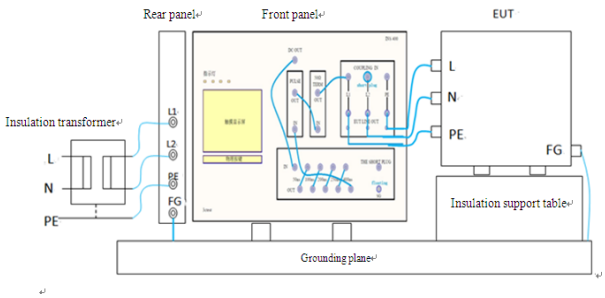
Accessories

User Manual, Test Line, Short-circuit Bar, Power Line, Earth Line, Coaxial Cable, Fuse*2

1 Typical calibration connection diagram



2 Typical test connection diagram（differential mode L1-L2）：



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