

ZN1189 — Conducted Susceptibility Test System

PRODUCT DATASHEET | 2 kHz–400 MHz | ZHINAN

2 kHz–400 MHz	Integrated source, amplifier and power meter	Automated calibration
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1. Product Overview

The ZN1189 integrates a signal source, broadband power amplifier, power meter and automated control functions for bulk-current-injection and CS114-oriented conducted-susceptibility testing. Together with injection and monitoring probes and the calibration fixture, it supports automated calibration and test execution.

2. Technical Specifications

Parameter	Specification
Frequency range	0.002–400 MHz
Frequency resolution	10 Hz
Frequency temperature stability	$\pm 3 \times 10^{-6}$
RF output impedance	50 Ω
Output power, 2–100 kHz	–37 to +43 dBm
Output power, 100 kHz–400 MHz	–37 to +50 dBm
Output-power accuracy	± 2 dB
Power-meter frequency range	0.002–400 MHz
Power-meter input impedance	50 Ω
Power-meter level range	–77 to +20 dBm
Power-meter accuracy / resolution	± 1 dB / 0.1 dB
Internal modulation	Pulse: 1 kHz / 50%; AM: 1 kHz / 80%
RF connectors	N-type
Dwell time	1–120 s
Calibration time	<60 s at the maximum permitted step size
Power supply	220 V AC $\pm 10\%$, 50 Hz
Operating temperature	0–30 °C
Warm-up time	5 min

3. Typical Applications

- MIL-STD-461 CS114-oriented conducted susceptibility
- Bulk-current-injection testing
- IEC 61000-4-6-oriented conducted immunity workflows
- Custom conducted-susceptibility tests

4. Standard Package

Item	Quantity / description
ZN1189 main unit	1
ZN23101A-A current-monitoring probe	1
20 dB / 50 W attenuator	1
50 Ω / 50 W coaxial load	1
ZN23101E injection probe and calibration fixture	1 set
Mounting fixture	1 set

5. Engineering Notes

- Applicable standards and test levels must be confirmed for each project.
- The system supports calibration, verification and measurement sequences with exportable calibration data.

Product Image

