

ZN1181K — Fixed-Frequency Power Signal Source

PRODUCT DATASHEET | 1 MHz–410 MHz | ZHINAN

13 fixed test frequencies	Stable 50 Ω output	Touch-screen operation
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1. Product Overview

The ZN1181K combines fixed-frequency generation, power amplification and touch-screen control in one compact instrument. It is intended for shielding-effectiveness evaluation of small enclosures and chambers and can be paired with the supplied loop and dipole antennas to form a complete test chain.

2. Technical Specifications

Parameter	Specification
Frequency points	1, 5, 10, 21, 30, 42, 63, 100, 130, 180, 215, 300 and 410 MHz
Frequency stability	$\pm 1 \times 10^{-5}$
Output impedance	50 $\Omega \pm 5\%$
Typical output level	≥ 100 dB μ V; dependent on frequency and antenna
Operating temperature	0–40 °C
Power supply	220 V AC $\pm 10\%$, 50 Hz ± 2 Hz
Dimensions	220 × 230 × 110 mm
Power consumption	≤ 50 W
Weight	Approx. 3 kg

3. Typical Applications

- Shielding-effectiveness testing of small enclosures and chambers
- Shielding verification of radio-module housings
- Interference-resistance evaluation of protected electronic equipment
- EMC research and engineering test platforms

4. Standard Package

Item	Quantity / description
ZN1181K main unit	1
Loop antennas, 1–30 MHz	1 transmit/receive pair
Low-frequency dipole set, 42–215 MHz	1 pair; 4 elements
High-frequency dipole set, 300/410 MHz	1 pair; 8 elements
N-to-N coaxial cable, 5 m	2
Antenna connecting rod	2
Power cord	2
Tape measure	1
Fuse	2
User manual	1
Spectrum analyzer	Optional
Certificate of conformity	1

5. Engineering Notes

- Disable RF output before changing frequency.
- The transmit and receive loop antennas are not interchangeable; follow their labels.
- Do not operate the RF output into an open circuit or short circuit.
- Nominal spacing to the shielded object: loop antenna 0.3 m; dipole antenna 0.65 m.

Product Image



Service

18 months against manufacturing defects under normal use.