

ZN3380C

Low Noise Preamplifier

Manufacturer: Beijing Daze Technology Co., Ltd.

1. Product Overview

The ZN3380C low noise preamplifier is specifically designed for small signal reception and measurement. It operates within the frequency range of 1 kHz to 18 GHz, with a minimum detectable signal amplitude of -127 dBm. This preamplifier is ideal for applications requiring a wide dynamic range, such as shielding effectiveness testing.

2. Technical Specifications

| Parameter | Specification |
|--------------------------|--------------------------------|
| Frequency Range | 1 kHz - 18 GHz |
| Minimum Detectable Level | -127 dBm |
| Amplifier Gain | 5 kHz - 500 MHz: 30 +/- 2.5 dB |
| | 500 MHz - 1 GHz: 28 +/- 2.5 dB |
| Input Signal | 1 GHz - 18 GHz: 30 +/- 2.5 dB |
| | Should be lower than -60 dBm |
| Power Supply | 220V +/- 10%, 50 Hz |
| Power Consumption | Less than 10W |
| Dimensions | 145mm x 30mm x 240mm |
| Weight | Approx. 3 kg |

3. Key Features

- **Wide Frequency Range:** Covers 1 kHz to 18 GHz, suitable for a variety of measurement applications.
- **High Sensitivity:** Capable of detecting signals as low as -127 dBm.
- **High Gain:** Provides up to 30 dB amplifier gain, ensuring effective amplification of small signals.
- **Low Power Consumption:** Consumes less than 10W, making it ideal for long-term operation.

4. Operating Instructions

1. Front Panel Controls:

- 1 kHz - 30 MHz measurement button
- 30 MHz - 1 GHz measurement button
- 1 GHz - 18 GHz measurement button
- Signal input terminal (50 ohm)
- Signal output terminal (50 ohm)
- Power switch

2. Rear Panel:

- Grounding terminal
- Power socket (AC220V, 50Hz)
- Fuse holder (0.5A fuse)

Usage Precaution: Do not input signals stronger than -60 dBm to avoid damage to the equipment.

5. Standard Accessories

| Item | Quantity |
|--------------------------------|----------|
| ZN3380C Low Noise Preamplifier | 1 unit |
| Power Cable | 1 unit |
| Spare Fuse | 1 piece |
| N-N Cable | 1 unit |

6. Warranty

Warranty Period: 18 months from the date of shipment, covering defects under normal use and transportation conditions.