

ZN1170H Microwave Point Frequency Power Source - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN1170H
Type: Microwave Point Frequency Power Source
Frequency Range: 26GHz, 35GHz, 40GHz, 50GHz

The ZN1170H Microwave Point Frequency Power Source provides power output at four frequency points: 26GHz, 35GHz, 40GHz, and 50GHz. It features high frequency stability and accuracy, low phase noise, compact size, and lightweight design, making it easy to operate and transport. The system complies with the following standards:

- **GB12190-2021:** Method for Measuring Shielding Effectiveness of Electromagnetic Shielding Rooms
- **GJB5792A-2021:** Military Confidential Information System Electromagnetic Shielding Body Grading and Measurement Methods
- **GJB6785-2009:** Military Electronic Equipment Shielding Effectiveness Testing Method

This device, combined with dual-polarized horn antennas and connecting cables, is suitable for high-performance shielding room electromagnetic shielding effectiveness testing.

2. Technical Specifications

Parameter	Specifications
Frequency Stability	$\geq 4 \times 10^{-8}$ (26GHz, 35GHz, 40GHz, 50GHz)
Frequency Accuracy	$\pm 0.01\%$ (26GHz, 35GHz, 40GHz, 50GHz)
Frequency Fine-Tuning	26GHz, 35GHz, 40GHz, 50GHz: $\pm 100\text{MHz}$ (step size: 10MHz)
Spurious Suppression	$\geq 30\text{dB}$ ($\text{BW} \leq 3\text{kHz}$)
Output Power	$\geq 20\text{dBm}$ (26GHz, 35GHz, 40GHz, 50GHz)
Output Impedance	50Ω
Output Interface	2.4 (K-Type)
Operating Voltage	90-240V AC, 50Hz/60Hz, 12V DC (battery)

Parameter	Specifications
Operating Temperature	0°C ~ 40°C
Relative Humidity	40°C, <80% RH
Atmospheric Pressure	86kPa ~ 106kPa
Dimensions (Main Unit)	310 × 150 × 380 mm
Weight	Approx. 5.1kg
Packaging Dimensions	650 × 450 × 335 mm
Packaging Weight	17kg

3. Field Strength and Distance Requirements

Frequency	Antenna Distance (cm)	Received Signal Level (dBμV)
26GHz	200	>90
35GHz	200	>90
40GHz	200	>90
50GHz	200	>90

4. Key Features

- High Frequency Stability and Accuracy:** Ensures precise test results, suitable for high-performance shielding effectiveness tests.
- Touchscreen Operation:** Easy-to-use colored LCD touchscreen for frequency selection and control.
- AC/DC Power Supply:** Supports both AC and DC power, with over 2 hours of continuous operation on DC power.
- Electromagnetic Shielding Effectiveness Testing:** Paired with dual-polarized horn antennas, ideal for high-frequency shielding effectiveness testing.

5. Included Accessories

Item	Quantity
26GHz, 35GHz, 40GHz, 50GHz Horn Antenna	1 pair (transmit, receive)
2.4(J) - 2.4(J) Low-Loss Testing Cable (1m)	2 units
Power Cable	1 unit
Fuse	2 units (installed in main unit power socket)
Rechargeable Battery	2 units
Charger	1 unit
DC Power Cable	1 unit
Tripod (optional)	2 units

6. Warranty

- **Duration:** 18 months from the date of shipment.
- **Conditions:** Covers manufacturing defects and failures under compliant transportation and usage conditions.

7. Product Photo



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