

ZN23201 Absorbing Clamp - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN23201
Type: Absorbing Clamp
Frequency Range: 30MHz - 1000MHz

The ZN23201 Absorbing Clamp is primarily used to measure electromagnetic interference power, applicable for measuring the electromagnetic power on power lines of household appliances, power tools, or for testing the interference suppression performance of ignition systems and electromagnetic susceptibility of receiving devices. This device complies with CISPR16-1-3:2020 and GB/T 6113.103-2021 standards and measures high-frequency interference power on conductors within the 30MHz to 1000MHz range.

2. Technical Specifications

Parameter	Specification
Frequency Range	30MHz - 1000MHz
Output Impedance	50Ω
Insertion Loss of Clamp	13dB - 22dB (see Insertion Loss Table)
Decoupling Factor DF	Greater than 21dB
Decoupling Factor DR	Greater than 30dB
Maximum Cable Diameter	Less than 20mm
Dimensions	641mm × 110mm × 98mm
Weight	5.5kg
Package Dimensions	815mm × 190mm × 255mm
Package Weight	10kg

3. Usage Instructions

1. **Preparation:**
Connect the output socket of the clamp to the interference analyzer (such as ZN3951) using a high-frequency cable with a characteristic impedance of 50Ω.
2. **Measurement Method:**
 - Adjust the analyzer to the desired frequency and turn on the sample power.
 - Move the absorbing clamp at each test frequency until the maximum value is displayed on the instrument.
 - Calculate the interference power: $P = U + K$, where P is the interference power (dB pW), U is the instrument reading (dB), and K is the correction factor of the absorbing clamp (dB).
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4. Standard Accessories

Item	Quantity
Absorbing Clamp	1 unit
N-N Connection Cable (6m)	1 unit
User Manual	1 copy
Certificate of Conformity	1 copy
Special Packaging Case	1 unit

5. Storage and Transportation

- Ensure smooth transportation to avoid collisions; the internal ferrite core is fragile.
- Store in a dry environment free from strong magnetic fields and corrosive gases.

6. Warranty Policy

- Warranty Period:** 18 months from the date of shipment.

7. Insertion Loss Table

Frequency (MHz)	Insertion Loss (dB)	Correction Factor (dB)
30	21.7	4.70
50	15.0	-2.00
100	13.7	-3.10
200	14.1	-2.60
400	15.4	-1.60
1000	18.6	1.60

8. Product Photo



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