

ZN23203 Electromagnetic Clamp - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN23203
Type: Electromagnetic Clamp
Frequency Range: 150kHz - 230MHz

The ZN23203 Electromagnetic Clamp is designed according to the IEC 61000-4-6 standard and is used to test the conductive immunity to radiofrequency fields by injecting interference signals onto cable assemblies through a slot. The device helps ensure that the equipment under test (EUT) meets the standard's requirements. The clamp can be used with auxiliary absorbing clamps and calibration tools for precise measurement.

2. Technical Specifications

Parameter	Specification
Injection Power	Maximum 100W (5 minutes)
Frequency Range	150kHz - 230MHz
Coupling/Decoupling Factor	Greater than 10dB (at frequencies above 10MHz)
Measurable Cable Diameter	<18mm
Clamp Dimensions	680mm × 125mm × 110mm
Clamp Weight	Approx. 6.5kg
Package Dimensions	850mm × 220mm × 420mm
Package Weight	Approx. 15.7kg

3. Standard Accessories

Item	Quantity
Electromagnetic Clamp	1 unit

Item	Quantity
Testing Cable	1 unit
100W 6dB Attenuator (E-002)	1 unit
Calibration Tool Set	1 set
E-003 φ4mm Test Rod (725mm)	1 unit
User Manual	1 copy



4. Usage Instructions

1. **Connecting:**
Connect the output of the clamp to a disturbance analyzer (e.g., ZN3951) using a high-frequency cable with 50Ω characteristic impedance.
2. **Measurement Method:**
 - Set the analyzer to the desired frequency and power up the sample.
 - Move the clamp along the cable until the maximum interference is displayed.
 - The interference power is calculated as $P = U + K$, where P is the interference power (dB pW), U is the analyzer's display value (dB), and K is the clamp correction factor (dB).



5. Coupling and Attenuation Table

Frequency (MHz)	Coupling Factor (dB)	Attenuation Factor (dB)	Difference (dB)
0.15	-2.4	-12.1	9.7
0.2	-2.1	-11.8	9.7
0.3	-1.9	-11.6	9.7
0.4	-1.9	-11.6	9.7
0.5	-1.9	-11.6	9.7
1.0	-1.9	-11.6	9.7
10	-2.4	-11.9	9.5
50	2.5	-7.2	9.7
100	3.6	-6.5	10.1
200	2.3	-7.8	10.1

6. Warranty

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

7. Product Photo



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