

ZN23101F Current Injection Clamp – Data Sheet



Product Overview

The **ZN23101F Current Injection Clamp**, developed by **Beijing Da Ze Technology Co., Ltd.**, is designed for **conducted immunity testing** over the frequency range of **4 kHz to 400 MHz**. It is primarily used to **inject or measure disturbance currents** on cables and interconnect lines, and is particularly suitable for **EMC compliance testing** such as **CS114** tests.

Technical Specifications

Environmental Conditions

Parameter	Operating Range	Storage Range
Temperature	0°C to 40°C	-40°C to 60°C
Humidity	40°C, 20%–90% RH	50°C, 90% RH
Atmospheric Pressure	860 to 1060 mbar	
Mechanical Durability	Complies with GB6587.1-86, Group II (transport, vibration, shock)	

Electrical Characteristics

Parameter	Value
Frequency Range	4 kHz to 400 MHz
Insertion Loss	See table and curve chart below
Input Impedance	50 Ω
Input Connector	N-type
Rated Power Handling	200 W continuous
Max Power Handling	500 W for 60 seconds

Mechanical Dimensions

Parameter	Value
Outer Dimensions	Φ140 × 100 mm
Inner Diameter	Φ50 mm
Weight	Approx. 4 kg

Usage Instructions

1. Application Scenarios

- Injection of RF disturbance current into:
 - Power supply lines
 - Signal cables and harnesses
- Measurement of conducted disturbances on cables

2. Testing Procedure

- Before testing, calibrate the voltage output as illustrated in **Figure 1**, following **GJB151A-97 CS114-1** standards.
- Refer to **Figure 2** for the complete test setup.

3. Insertion Loss Table (Partial)

Frequency (MHz)	Insertion Loss (dB)	Frequency (MHz)	Insertion Loss (dB)
0.004	-42.5	280	-6.1
0.01	-34.7	300	-6.3
0.02	-28.7	320	-6.9
0.03	-25.2	350	-8.5
0.05	-21.0	380	-10.7
0.08	-17.1	400	-12.8

A full insertion loss table and graphical chart are available in the annex.

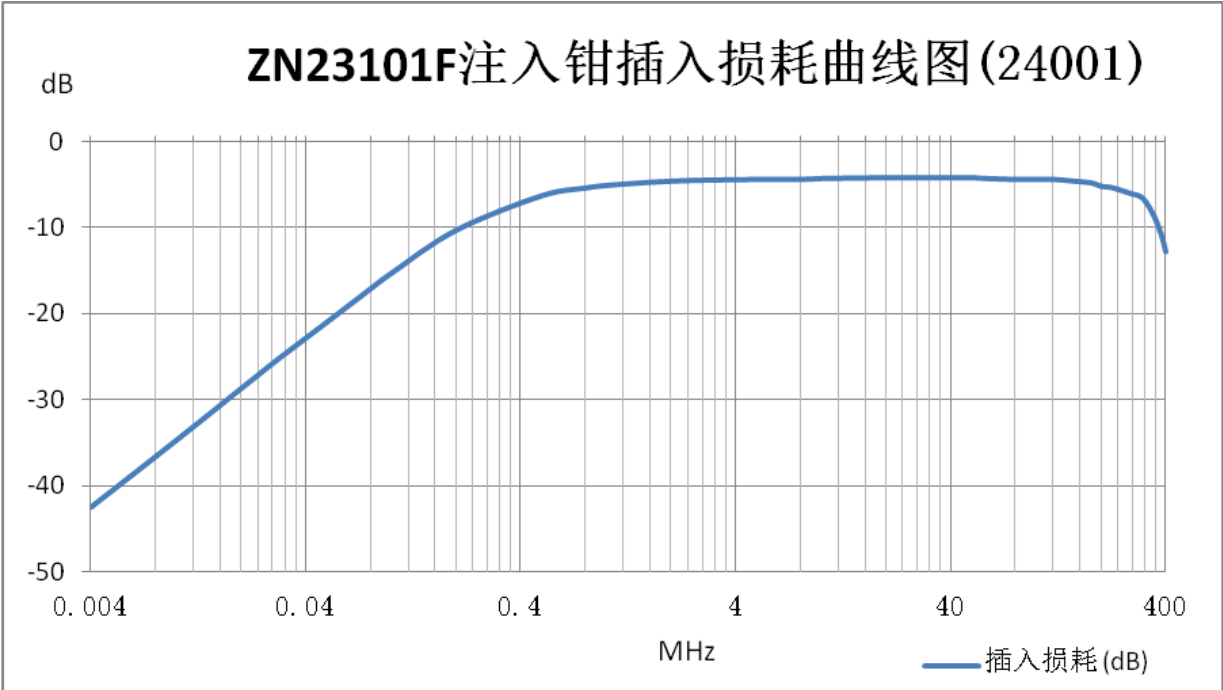
Scope of Delivery

Item	Description
ZN23101F Injection Clamp	1 unit
N-to-N Coaxial Cable	1 piece
Calibration Kit	Optional
50Ω 100W Load	Optional
User Manual	1 copy

Warranty

- Warranty Period:** 18 months from invoice date
- Coverage:** The product will be repaired free of charge if any faults arise due to manufacturing defects, provided that transport, storage, and usage conditions are met.

Insertion Loss Table



Product Photo



Contact Information

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