

ZN31301 — Compact Flanged-Coaxial Shielding-Effectiveness Fixture

PRODUCT DATASHEET | 30 MHz–3 GHz | ZHINAN

Φ85 mm material samples	<0.5 dB insertion loss	>100 dB dynamic range
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1. Product Overview

The ZN31301 is a compact flanged-coaxial fixture for evaluating the electric-field shielding effectiveness of flat material samples. It connects to a vector network analyzer or a tracking-generator/spectrum-analyzer chain and supports measurements with more than 100 dB of usable dynamic range.

2. Technical Specifications

Parameter	Specification
Frequency range	30 MHz–3 GHz, electric-field method
Input / output impedance	50 Ω
Maximum input power	≤20 dBm
VSWR	≤1.2, 30 MHz–3 GHz
Insertion loss	<0.5 dB
Sample size	Φ85 mm; thickness <2 mm
Dynamic range	>100 dB
Operating temperature	–10–40 °C
Operating humidity	<85% RH
Dimensions	240 × 120 × 180 mm
Weight	6 kg

3. Typical Applications

- Shielding-effectiveness measurement of material samples
- Rapid screening during material development
- Flanged-coaxial measurement chains using a VNA or spectrum analyzer

4. Standard Package

Item	Quantity / description
ZN31301 fixture	1
N-to-N double-shielded test cable, 1 m	2
6 dB / 10 W attenuator	2
Punching fixture	1
Backing plate	1
Circular punch	1
Documentation and certificate	1 set

5. Engineering Notes

- Use the flanged-coaxial test method specified by the applicable project or laboratory procedure.

Product Image

