

ATN3021/ATN3022 Vector Network Analyzer



ATN3022



ATN3021

TEST METHOD: Can do the full-span scan, List scan and Point-frequency scan.

TEST FUNCTION: Can test the Transmission parameter (the amplitude-frequency characteristic, insertion loss, phase, the gain of amplifier, the gain of antenna, group delay, option for the antenna orientation chart measurement) and Reflection testing (test standing wave, return loss, impedance, reflection phase, electric length, display the smith circuitual chart function, opt permittivity & testing function), time-domain fault orientation function.

TEST FORMAT: Display as the logarithm amplitude and the amplitude phase at the same time. Reflection testing displays the logarithm display, standing wave ratio display, the Smith circuitual chart display

DISPLAY OUTPUT: 5" CRT kinescope display

RECORD DEVICE: Printer or U disc.

USING RANGE AND RELEVANT CAPABILITY

- ◆ Suitable for radio, television, telecommunications, radar etc. feedback system's testing and higher education college's RF microwave teaching experiment.
- ◆ After selection can test the 50Ω, 75Ω, 100Ω
- ◆ Optional time-domain fault orientation function can check the fault location of coaxial cable in the feedback system. Testing rang is: 0-1200m, orientation true. The resolution is about ±3mm when the length about 10m, the resolution is about ±1cm when the length about 30m.
- ◆ Match the relevant testing accessory (impedance transformer, difference bridge etc) can test the transmission line's characteristic impedance, insertion loss, time-lapse, phase shift etc. Specifications of the coaxial cable, wisted pair, coaxial connector and transmission line. It can also be used to detect the RF cable's leakage and shield capability.
- ◆ Relevant probe, can test the permittivity constant of the relevant liquid, plane solid and powder etc.

THE MAIN SPECIFICATIONS

Item No.	ATN3021	ATN3022
Signal source	Frequency span	30-3200MHz
	Frequency accuracy	10 ⁻⁵
	Resolution of Frequency	0.025MHz
Display	The Resolution of Insertion-loss	The indeterminacy of 0.01dB/div is 4% of 0.2dB ± dB in 50dB
	The resolution of reflection	The indeterminacy of 0.002 is 0.01 (the surplus standing wave is 1.02)
	The resolution of phase	0.1° ,the indeterminacy is about 5° /div
The characteristic of Measurement	Frequency range	30-3200MHz
	The bate of the mixed wave	40dB
	Group delay	1ns-40μs
	Time-domain fault orientation	0-1200 m divided 9 degree
	Test Antenna orientation chart(option)	1° one record (totally 361 dot)
	Dynamic range	Insertion loss: 80dB Return loss: 50dB Gain: -20-30dB
Port - Characteristic	Reflection bridge direction	≥ 35dB
	Load return loss	≥ 40dB
	Testing port	N type single channel N type dual channel
Others	Dimension	430(width)*133(height)*450(length)
	Weight	13kg
	Standard accessory	50Ω N kit
	Optional accessory	75Ω N testing kit, SMA testing kit, TV frequency modulation anti-interfere special bridge

ACCESSORY



50Ω N Kit (30~3200MHz/30~6000MHz)

Reflection bridge (1 pcs)
10dB attenuator(SWR=1.4) (2pcs)
Matched load (1pcs five head)
Protection connector (1pcs)
Matched load (1pcs K head)
Circuit opener JK (each 1 pcs)
Unmatched load(1pcs)
Circuit-shorter JK (each 1pcs)

50Ω SMA Kit (30~3200MHz/30~6000MHz)

Reflection bridge (1 pcs)
10dB attenuator(SWR=1.4) (1pcs)
Matched load J head (1pcs)
Protection connector (1pcs)
Matched load K head (1pcs)
Circuit opener JK (each 1 pcs)
Unmatched load(1pcs)
Circuit-shorter JK (each 1pcs)

75Ω N Kit (5~2500MHz)

Reflection bridge (1 pcs)
Impedance transformer (50Ω-75Ω 1pcs)
Matched load J head (1pcs)
Protection connector (1pcs)
Matched load K head (1pcs)
Circuit opener JK (each 1 pcs)
Unmatched(1.4) load(1pcs)
Circuit-shorter JK (each 1pcs)
Dual male (1pcs) / Dual female(1pcs)