VNA4265

矢量网络分析仪

Vector Network Analyzer

Technical Specifications

深圳市极致汇仪科技有限公司
Shenzhen iTest Technology Co., Ltd.
文件编号：ITENEST-WI-YX-49/A

SYSTEM MEASUREMENT RANGE		
Frequency Range	10MHz to 26.5GHz	
Number of Test Ports	2 or 4	
Test Port Connector Type	NMD 3.5mm, male	
Output Power Range	-55dBm to +10dBm	
System Impedance	50Ω	
Frequency Setting Resolution	1Hz	
Power Setting Resolution	0.05dB	
Number of Measurement Points	1 to 20,001	
System Bandwidth(IFBW)	10Hz to 1.5MHz[Table 1]	
System Dynamic Range[1]: (RF Range Fixed Mode=OFF) @IFBW=10Hz	10MHz to 6GHz	135dB
	6GHz to 20GHz	132dB
	20GHz to 26.5GHz	130dB

MEASUREMENT ACCURACY(UNCERTAINTY)[2]		
Trace Noise: Meas. Power=Max Output Power		
Transmission	10MHz to 6GHz(IFBW=70kHz)	4mdB rms/0.03deg rms
	6GHz to 26.5GHz(IFBW=70kHz)	3mdB rms/0.02deg rms
Reflection	10MHz to 6GHz(IFBW=70kHz)	5mdB rms/0.02deg rms
	6GHz to 26.5GHz(IFBW=70kHz)	3mdB rms/0.02deg rms

CORRECTED SYSTEM EFFECTIVE DATA[2]				
Description	10MHz to 2GHz	2GHz to 13.5GHz	13.5GHz to 20GHz	20GHz to 26.5GHz
Directivity	48	44	44	44
Source Match	40	31	31	31
Load Match	48	44	44	44

UNCORRECTED SYSTEM RAW DATA[3]				
Description	10MHz to 2GHz	2GHz to 13.5GHz	13.5GHz to 20GHz	20GHz to 26.5GHz
Directivity	25 dB	15 dB	12 dB	12 dB
Source Match	25 dB	15 dB	15 dB	13 dB
Load Match	17 dB	10 dB	10 dB	10 dB

TEST PORT OUTPUT PERFORMANCE		
Power Accuracy	±0.5 dB @0dBm	
Power Linearity (Relative to 0dBm)	10MHz to 6GHz	±0.5 dB(-20dBm to +10dBm)
	6GHz to 26.5GHz	±0.75 dB (-20dBm to +10dBm)
Harmonic(2nd or 3nd)	<-20dBc @5dBm	
Non-Harmonic Spurious	<-30dBc @5dBm	
CW Accuracy	±7ppm (23 °C±3 °C)	
Source Stability	±7ppm (5 °C±40 °C)	

TEST PORT INPUT PERFORMANCE		
Maximum Input Level	+10dBm	
Damage Level	+26dBm or ±35VDC	
Cross Talk	10MHz to 6GHz	-120dB

	6GHz to 20GHz	-110dB
	20GHz to 26.5GHz	-100dB
Noise Floor	10MHz to 6GHz	-135dBm/Hz
	6GHz to 20GHz	-132dBm/Hz
	20GHz to 26.5GHz	-130dBm/Hz
NON-TEST INPUT/OUTPUT PORT REQUIREMENTS		
External Reference Signal Input	Connector Type	BNC Female
	Input Frequency	10MHz±10ppm
	Input Level	Low Threshold Votage:0.5V High Threshold Votage:2.1V Input Level Range:0 to +5V
	Duty Cycle	40% to 60%
External Reference Signal Output	Connector Type	BNC Female
	Output Frequency	10MHz±7ppm
	Output Level	Low Level Votage:0V High Level Votage:5V
	Duty Cycle	40% to 60%
	Signal Type	TTL
External Trigger Input	Connector Type	BNC Female
	Input Level	Low Threshold Votage:0.5V High Threshold Votage:2.1V Input Level Range:0 to +5V
	Pulse Width	2μs
	Polarity	Positive or Negative
External Trigger Output	Connector Type	BNC Female
	Max Output Current	30mA
	Output Level	Low Level Votage:0V High Level Votage:5V
	Pulse Width	1μs
	Polarity	Positive or Negative
GENERAL AND ENVIRONMENT		
Display	12.1 inch multi touch screen LCD(1280 X 800)	
Operating Temperature	+5 °C to +40 °C	
Error-Corrected Temperature Range	23 °C(±5 °C) with <1 °C deviation from calibration temperature	
Operating Humidity	20% to 80% at wet bulb temperature <+29 °C (non-condensation)	
Storage Temperature	-10 °C to +60 °C	
Storage Humidity	20% to 90% at wet bulb temperature <+40 °C (non-condensation)	
Dimensions	Unit with Handle:482.6mm W x 404mm D x 265.9mm H Unit without Handle: 482.6mm W x 380mm D x 265.9mm H	
Weight	21Kg	

Power Requirements	90 to 264VAC, 47 to 63Hz
Power Consumption	<180W(maximum)
EMC	EN 61326-1:2005 EN 55011:2007 Group 1, Class A EN 61000-4-2:1995 +A2:2001 4kV CD/8kV AD EN 61000-4-3:2006 EN 61000-4-4:2004 EN 61000-4-5:2006 EN 61000-4-6:2007 3V, 0.15-80 MHz, 80% AM EN 61000-4-11:2004 0.5-300 cycle, 0%/70%
Safety	EN 61010-1:2001 Measurement Category I Pollution Degree 2 Indoor Use
Recommended Calibration Cycle	12 months
Warranty	36 months hardware 36 months software update

1. If RF Range Fixed Mode=ON, performance may be degrade by 10dB.

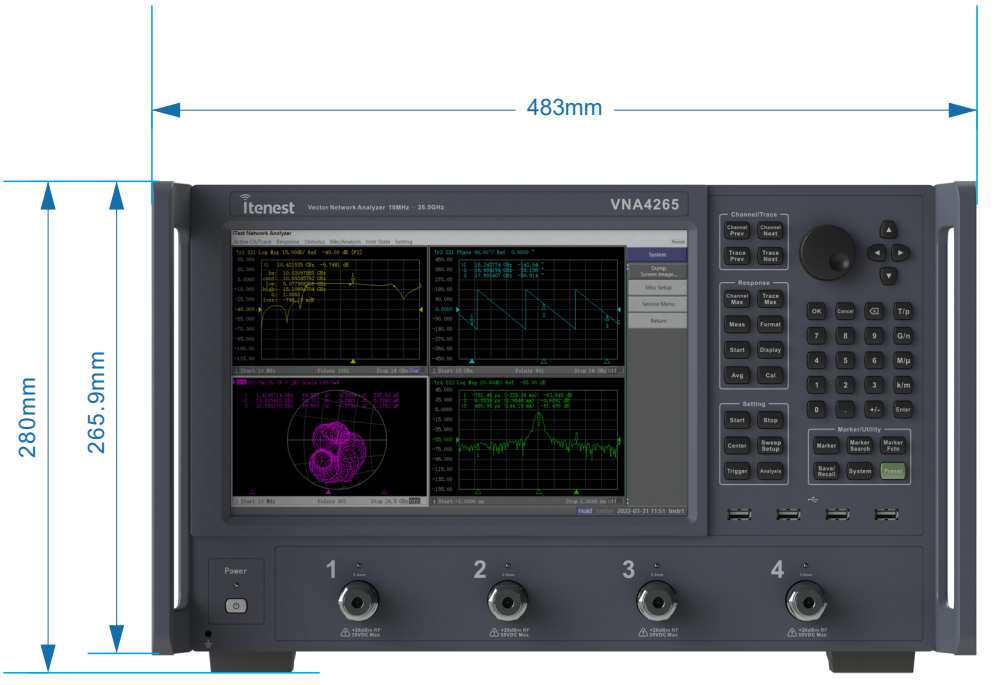
2. Using Cal Kit:85052B(3.5mm 50Ω) for full 2-port calibration. And IF bandwidth = 10 Hz, no averaging applied to data, environmental temperature= 23ºC(±5ºC) with < 1ºC deviation from calibration temperature, isolation calibration performed.

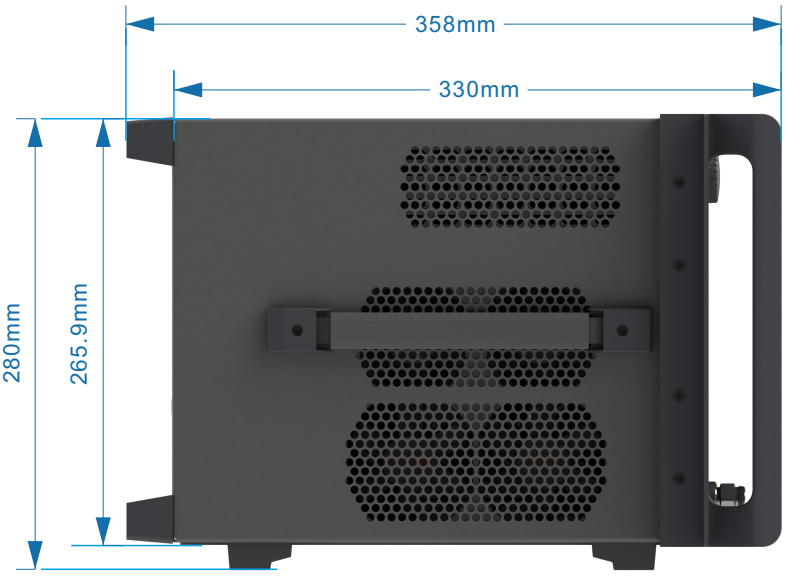
3. User correction: OFF, system correction: ON

4. All specifications apply at 23 ºC (±5 ºC), unless otherwise stated, and 90 minutes after the instrument has been turned on.

Table 1.

IFBW Nominal settings	10,15,20,30,40,50,70,100,150,200,300,400,500,700,1k,1.5k,2k,3k,4k,5k, 7k,10k,15k,20k,30k,40k,50k,70k,100k,150k,200k,300 k,400k,500kHz, 700 kHz,1MHz,1.5MHz


483mm
280mm
265.9mm
itenest
Vector Network Analyzer 10MHz ~ 26.5GHz
VNA4265
Power
1
2
3
4


358mm
330mm
280mm
265.9mm

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