

Datasheet

Description

The FEV-28 Series will expand your existing Vector Network Analyzer (VNA) capabilities so you can conduct industry leading millimeter wave S-parameters measurements in U band. These frequency extension modules connect to your existing test ports, and leverage the inherent microwave network analyzer's performance and features to display full port S-parameters: Two measurement architectures are available:1-path/2-port and fully reversing 2-port. Waveguide calibration kits are available as separate accessories.



Features

- Full simultaneous 2-port or 4-port network analysis
- · Excellent dynamic range
- Excellent stability
- Compact and robust design
- Convection cooled no fans hence no vibration.
- T/R and T heads available
- Electronic power control compatibility with Agilent PNA-X
- 25 dB integrated manual variable attenuator on Port 1 heads
- · 2-Port controller available as standard
- 4-port controller available for balanced and multi-port measurements to special order

Applications

- Test and measurement frequency range extension
- Balanced S-parameters
- Multi-port S-parameters
- Wafer probe measurement
- Antenna measurements
- · Dielectric material characterisation

Accessories

- Calibration kits
- Cables
- Manuals
- Flight cases





WR 28 VNA Frequency Extension Module 26.5-40GHz – FEV-28

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Specification	Unit	Min	Тур	Max
System Operating Frequency	GHz	26.5		40
Test Port Output Power (2)	dBm	+15	+20	
System Dynamic Range (3)	dB	100	120	
Raw Coupler Directivity	dB	40	45	
Trace Stability Magnitude (4)	dB		±0.1	
Trace Stability Phase (4)	degree		1	
Test Port Input 0.1dB Compression Point	dBm		+25	
RF Input Frequency	GHz	13.25		20
RF Input Power	dBm	+5		+10
LO Input Frequency	GHz	6.625		10
LO Input Power	dBm	+5		+10
IF Output Frequency	MHz	5		50
Test Port Damage Level	dBm	+30		
RF/LO Port Damage Level	dBm	+15		
Test Port Interface	-	WR-28 UG-5990U		
RF/LO Connector	-	3.5 mm (F)		
IF Connector	-	SMA (F)		
DC Power Requirements	-	+6V at 1500 mA		
Weight	kg		3.5	
Dimensions (L x W x H)	-	345 x 140 x 90		
Operating Temperatures	℃	0		30

- (1) Specifications are typical and subject to change without a notice.
- (2) For frequencies greater than 110 GHz traceable only to FTL calorimeter.
- (3) Measured with PNA-X 5242A at 10 Hz of IF bandwidth.
- (4) Measured at 1h after 2h warm up and calibration. Assuming ideal RF and LO cables.



