

Quick Fact Sheet

MS46522B 2-Port Performance ShockLine Vector Network Analyzer



RF and Microwave VNAs to 43.5 GHz

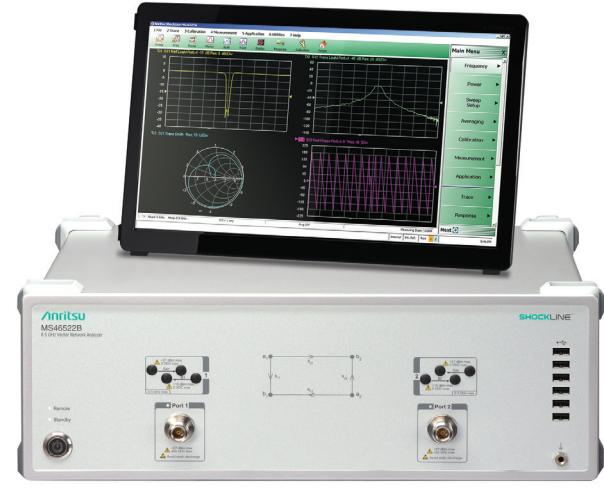
The MS46522B is a series of 2-port Performance ShockLine Vector Network Analyzers. Delivering an unprecedented level of value and performance, including best-in-class dynamic range, the MS46522B series lowers cost-of-test and speeds time to market in numerous testing of applications up to 43.5 GHz. These applications include characterizing and manufacturing mobile network equipment, mobile devices, automotive cables, high-speed data interconnects and system integration components.

The MS46522B configured with option 10, 20, or 40 brings RF to microwave frequency capabilities to the Performance ShockLine family. These frequency options, combined with powerful ShockLine software, provide a cost effective solution for the most challenging, passive device testing.

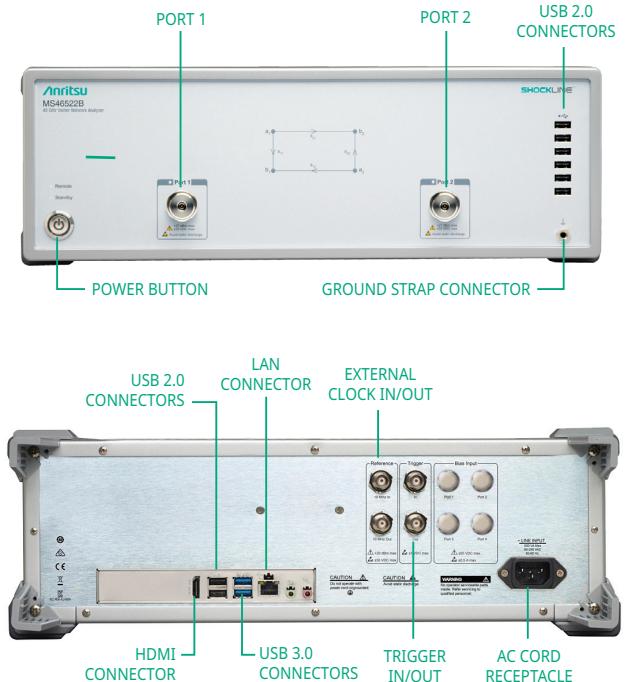
The MS46522B series comes in a 3U high chassis and uses the same GUI, software, command syntax, drivers, and programming environments as the rest of the ShockLine family.

Key Features and Benefits

- High output power allows measurement of high attenuation devices.
- Industry leading dynamic range enables measurement of very low reflection artifacts.
- Excellent corrected directivity minimizes measurement uncertainty.
- SmartCal auto calibration unit reduces calibration and setup time.
- Time domain with time gating option grants easier and faster fault identification.
- Modern LAN interface for remote control is faster than GPIB.
- A common GUI and SCPI interface within the Shockline Family for ease of use.
- USB ports allow for easy connection to peripherals like keyboard and mouse.
- The small 3U packages allows for the efficient use of rack space.



MS46522B-010 (8.5 GHZ VNA SHOWN ABOVE)



SHOCKLINETM

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Key Specifications

Analyzer Performance	
Frequency Options	MS46522B-010, 50 kHz to 8.5 GHz, type N(f) ports MS46522B-020, 50 kHz to 20 GHz, type k(m) ports MS46522B-040, 50 kHz to 43.5 GHz, type k(m) ports
Dynamic Range	> 140 dB, (50 MHz to 2 GHz)
Output Power	-30 dBm to +15 dBm, (300 kHz to 6 GHz)
Corrected Directivity	> 42 dB
General	
Measurement Parameters	S_{11} , S_{21} , S_{22} , S_{12} , and any user-defined combination of a_1 , a_2 , b_1 , b_2 , 1.
Display Graphs	Log Magnitude, Phase, Group Delay, Linear Magnitude, Real, Imaginary, SWR, Impedance, Smith Chart (Impedance)
Measurements Data Points	2 to 20,001 points
Limit Lines	Single or segmented. 2 limit lines per trace. 50 segments per trace.
IF Bandwidth	10, 20, 30, 50, 70, 100, 200, 300, 500, 700 Hz 1, 2, 3, 5, 7, 10, 20, 30, 50, 70, 100, 200, 300, 500 kHz
Display and Traces	Up to 16 traces. A separate memory for each trace can be used to store measurement data for later display or subtraction, addition, multiplication or division with current measurement data. The trace data can be saved and recalled.
Markers	12 markers + 1 reference marker
Remote Control Interface	SCPI/Software drivers over LAN
Display	Powerful GUI displayed on user-provided monitor, touchscreen compatible
Dimensions (H x W x D)	152 mm x 445 mm x 442 mm
Weight:	< 11 kg (< 25 lb), typical

Product Options

Option Number	Description
MS46522B-001	Rack mount
MS46522B-002	Time Domain with time gating

Calibration Accessories

Part Number	Description
MN25208A	2-Port SmartCal 8.5 GHz USB Auto Calibration Unit
36585k	2-Port Precision AutoCal 40 GHz Auto Calibration Unit
TOSLN50A-8	Precision N Male Through/Open/Short/Load Mechanical Calibration Tee
TOSLN50A-8	Precision N Female Through/Open/Short/Load Mechanical Calibration Tee
TOSLK50A-40	Precision K Male Through/Open/Short/Load Mechanical Calibration Tee
TOSLK50A-40	Precision K Female Through/Open/Short/Load Mechanical Calibration Tee
3653A	Type N Calibration Kit
3650A	SMA / 3.5 mm Calibration Kit
15NN50-1.0B	Test port Cable, DC to 18 GHz, N(m)-N(m)

Accessories

Cables	Automatic Calibration Unit
	
Calibration Accessories	Torque Wrenches
	

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