Quick Fact Sheet

MS46522B Option 83

ShockLine™ Performance Vector Network Analyzer

Anritsu
envision : ensure

Dedicated E-Band VNA for 55-92 GHz Over-the-Air (OTA) Applications

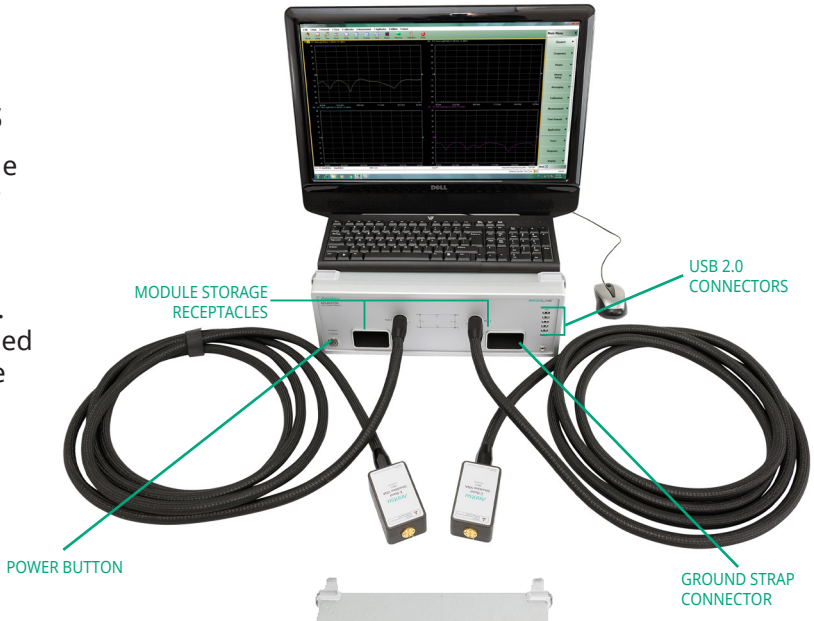
Option 83 is the five meter E-band frequency option for the 2-port MS46522B. It brings a unique banded mmWave measurement solution to the marketplace for OTA chamber applications. For measurements requiring E-band frequency coverage over distance, the new 522B series five-meter option 83 is the most convenient and best value on the market.

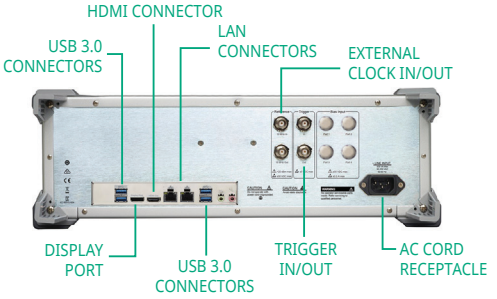
The option 83 E-band VNA consists of small tethered source/receiver modules and a base chassis. The modules are attached to the chassis through five-meter cables that are permanently attached to the unit making this a compact, ready-to-use E-band VNA. The remote modules have a native WR12 waveguide interface for convenient interfacing to typical waveguide devices.

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

- Extended frequency range covering E-band and major parts of V and W bands.
- Wide dynamic range enables measurement of very low reflection artifacts.
- Fully assembled five-meter test system eliminates cable setup and calibration errors.
- Tethered modules connect directly to the DUT increasing measurement stability.
- 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.





SHOCKLINE™

Simple | Economical | Great Performance

Quick Fact Sheet

MS46522B Option 83

ShockLine™ Performance Vector Network Analyzer

Anritsu
envision : ensure

Key Specifications

Analyzer Performance	
Frequency Options	MS46522B-083, 55 to 92 GHz, WR-12 Waveguide Flange, five-meter
Dynamic Range	≥ 104 dB (60 GHz to 90 GHz, typical)
Output Power	–55 dBm to –5 dBm (60 GHz to 69 GHz) –50 dBm to 0 dBm (>69 GHz to 88 GHz) –60 dBm to –10 dBm (>88 GHz to 90 GHz)
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, Polar, Power in/out
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

General (continued)	
Dimensions (H x W x D)	152 mm x 445 mm x 442 mm (Dimensions apply to chassis only)
Weight:	< 15 kg (< 33 lb), typical

Product Options

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

Calibration Accessories

Part Number	Description
3655E	Waveguide Calibration kit (WR12)

Accessories

Calibration Kit

Pricing | Ordering | Support

www.anritsu.com

11410-01129, Rev. A Printed in United States 2019-05