

MN25218A SmartCal™ Automatic Calibration Unit

Low Cost USB Automatic Calibration Units

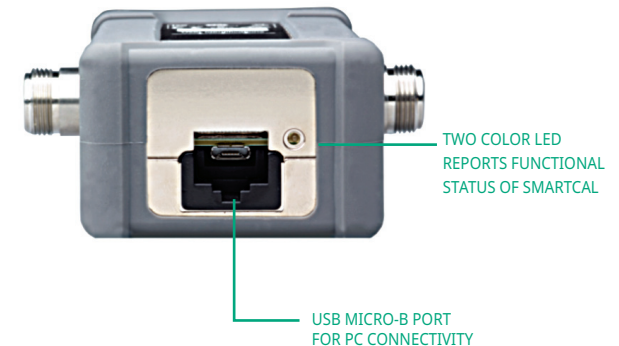
The SmartCal MN25218A is a series of 2-port automatic calibration units covering a frequency range from 1 MHz to 20 GHz. The MN25218A is available with Option 002, K(f) connectors on both ports.

The MN25218A delivers automatic, fast and error-free calibrations for any ShockLine VNA. The SmartCal automatically powers on via a USB connection and loads calibration kit coefficients from on-board memory into the ShockLine software. The SmartCal is ready to use immediately after detection by the VNA because it doesn't require warm-up.

SmartCal improves productivity by providing easier and faster single connection calibrations. Port auto sense and port mapping feature reduce errors and make multiport calibrations easier. The MN25218A, along with easyTest, can also be used in guided graphical test procedures to further simplify complex calibrations.

MN25218A SmartCal™ Highlights

- Auto load of calibration kit coefficients speeds up setups and reduces calibration error.
- Auto sense determines the number of VNA ports connected preventing poor connections and calibration.
- VNA to SmartCal Port mapping increases flexibility and simplifies multiport calibrations.
- ShockLine software auto detects SmartCal providing simple and easy to use calibration software.
- No internal heater eliminates warm up time and provides a stable calibration.
- USB powered and controlled provides the convenience of a one plug interface without an external power supply.
- Single connection calibrations reduce wear and tear on connectors and cables over manual calibrations.
- Supports all ShockLine VNAs with 1-, 2-, 4-port calibration available.
- SCPI command set allows for easy integration into automated test environments.
- Automatic and fast calibrations at a low price.
- Small size provides easier use when moving between VNAs.



Simple. Economical. Great Performance.

MN25218A SmartCal™

Automatic Calibration Unit

Key Specifications

Analyzer Performance	
SmartCal Corrected Performance	
Typical Performance	ShockLine 2- and 4-Port VNAs
Corrected Source Match	> 33 dB (1 MHz - 20 GHz)
Corrected Load Match	> 42 dB (1 MHz - 10 GHz) ≥ 37 dB (10 GHz - 20 GHz)
Corrected Directivity	> 42 dB (1 MHz - 10 GHz) ≥ 37 dB (10 GHz - 20 GHz)
Transmission Tracking	± 0.06 dB (10 MHz - 10 GHz) ± 0.1 dB (10 GHz - 18 GHz)
Reflection Tracking	± 0.15 dB (10 MHz - 18 GHz)

Product Options



Option Number	Description
MN25208A-002	Option1, K(f) - K(f) Connectors

Included Accessories


Option Number	Description
2000-1606-R	1.8 m USB A/ Micro-B latch cable

Recommended Accessories


Option Number	Description
01-201	Torque Wrench, 5/16 in, 0.9 N*m (8 lbf*in)
34NN50A	Precision Adapter, DC to 18 GHz, N(m) - N(m), 50 Ω
33NNF50B	Calibration Grade Adapter, DC to 18 GHz, N(m) - N(f), 50 Ω
33SS50	Calibration Grade Adapter, DC to 26.5 GHz, 3.5 mm (m) - 3.5 mm (m), 50 Ω
K220B	Precision Adapter, DC to 40 GHz, K(m)-K(m), 50 Ω


ShockLine™ Vector Network Analyzer Family
Frequency Ranges from 50 kHz to 92 GHz



MS46121A 1-port USB VNA
MS46122A 2-port USB VNA
MS46322A 2-port Economy VNA



Performance E-Band VNA
MS46522B Option 82
(Not Pictured: MS46524B Option 82)



Performance VNA
MS46522B 2-port
MS46524B 4-port

For more information visit: www.anritsu-shockline.com

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