

MN25418A SmartCal™ Automatic Calibration Unit

Low Cost USB Automatic Calibration Units

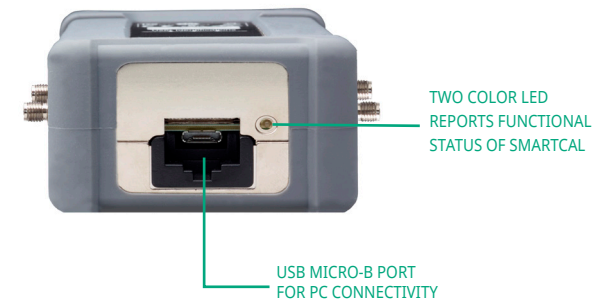
The SmartCal MN25418A is a series of 4-port automatic calibration units covering a frequency range from 300 kHz to 20 GHz. The MN25418A is available with Option 002, K(f) connectors on all ports.

The MN25418A delivers automatic, fast and error-free calibrations for any ShockLine VNA. The SmartCal automatically powers on via an 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 features reduce errors and make multiport calibrations easier. The MN25418A, along with easyTest, can also be used in guided graphical test procedures to further simplify complex calibrations.

MN25418A SmartCal™ Highlights

- Calibration kit coefficients are conveniently auto loaded for accurate calibrations.
- 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 the SmartCal making calibrations simple and easy to run.
- No internal heater eliminates warm up time and provides a stable calibration.
- USB power and control 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-, and 4-port calibrations available.



MN25418A SmartCal™ Automatic Calibration Unit

Key Specifications

Analyzer Performance	
SmartCal Corrected Performance	
Typical Performance	ShockLine MS46522B and MS46524B VNAs
Corrected Source Match	≥ 31 dB (300 kHz - 20 GHz)
Corrected Load Match	≥ 42 dB (300 kHz - 6 GHz) ≥ 37 dB (>6 GHz - 18 GHz) ≥ 34 dB (> 18 GHz - 20 GHz)
Corrected Directivity	≥ 40 dB (300 kHz - 6 GHz) ≥ 35 dB (>6 GHz - 20 GHz)
Transmission Tracking	± 0.15 dB (300 kHz - 6 GHz) ± 0.20 dB (>6 GHz - 18 GHz) ± 0.25 dB (>18 GHz - 20 GHz)
Reflection Tracking	± 0.15 dB (300 kHz - 6 GHz) ± 0.20 dB (>6 GHz - 20 GHz)

Product Options


Option Number	Description
MN25418A-002	Option 2, K(f) - K(f) Connectors

Included Accessories

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

Recommended Accessories


Part Number	Description
01-201	Torque Wrench, 5/16 in, 0.9 N*m (8 lbf*in)
34NK50A	Precision Adapter, DC to 18 GHz, N(m) - K(m), 50 Ω
34NFK50	Precision Adapter, DC to 18 GHz, N(f) - K(m), 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




Simple | Economical | Great Performance

ShockLine™ Vector Network Analyzer Family


Frequency Ranges from 50 kHz to 92 GHz



MS46121B 1-port USB VNA
MS46122B 2-port Compact VNA
MS46322B 2-port Economy VNA



Performance E-Band VNA
MS46522B Option 82



Performance VNA
MS46522B 2-port
MS46524B 4-port

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