

Quick Fact Sheet

MN25208A SmartCal™

Automatic Calibration Unit



Low Cost USB Automatic Calibration Units

The SmartCal MN25208A is a series of 2-port automatic calibration units covering a frequency range from 300 kHz to 8.5 GHz. The MN25208A has three different connector options which include a set of N(f), K(f), or 3.5 mm(f).

The MN25208A 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.

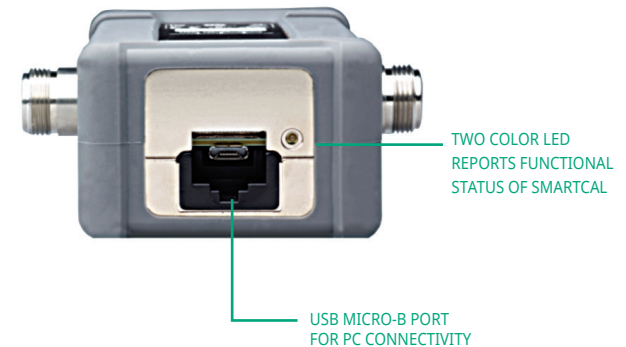
SmartCal improves productivity by providing easier and faster single connection calibrations. Port auto sense and port mapping feature reduce errors and make multipoint calibrations easier. The MN25208A, along with easyTest, can also be used in guided graphical test procedures to further simplify complex calibrations.

MN25208A 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 multipoint 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
- Supports ShockLine Vector Network Analyzer A and B models.



N(F) CONNECTOR
(OTHER CONNECTOR
OPTIONS AVAILABLE)



TWO COLOR LED
REPORTS FUNCTIONAL
STATUS OF SMARTCAL

USB MICRO-B PORT
FOR PC CONNECTIVITY

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Key Specifications

| Analyzer Performance | |
|--------------------------------|------------------------------------------------------------------------------------------|
| SmartCal Corrected Performance | |
| Typical Performance | ShockLine MS46522B and MS46524B VNAs |
| Corrected Source Match | > 35 dB (300 kHz - 8.5 GHz) |
| Corrected Load Match | > 38 dB (300 kHz - 5 GHz) > 33 dB (5 GHz - 8 GHz) |
| Corrected Directivity | > 42 dB (300 kHz - 5 GHz) > 36 dB (5 GHz - 8 GHz) |
| Transmission Tracking | ± 0.08 dB (300 kHz - 8 GHz) |
| Reflection Tracking | ± 0.15 dB (300 kHz - 1 GHz) ± 0.08 dB (>1 GHz - 5 GHz) ± 0.1 dB (>5 GHz - 8.5 GHz) |

Product Options


| Option Number | Description |
|---------------|--------------------------------------------|
| MN25208A-001 | Option 1, N(f) - N(f) Connectors |
| MN25208A-002 | Option 2, K(f) - K(f) Connectors |
| MN25208A-003 | Option 3, 3.5 mm(f) - 3.5 mm(f) Connectors |

Included Accessories

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

Recommended Accessories


| Part Number | Description |
|-------------|--------------------------------------------------------------------------|
| 01-200 | Torque Wrench, 3/4 in. 0.9 N*m (8 lbf*in), Type N |
| 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 |




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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