

MN25208A SmartCal™

Automatic Calibration Unit

Low Cost USB Automatic Calibration Units

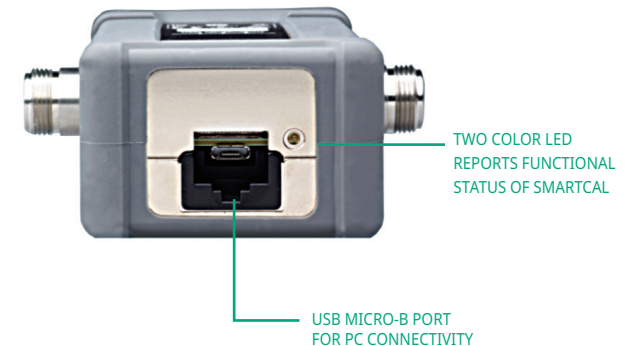
The SmartCal MN25208A is a series of 2-port automatic calibration units covering a frequency range from 300 kHz to 8.5 GHz. The MN25208A has 4 different connector options which include a set of N(f), K(f), 3.5mm(f) or SMA(f) type connectors.

The MN25208A 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 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.



Simple. Economical. Great Performance.

MN25208A SmartCal™ Automatic Calibration Unit

Key Specifications

Analyzer Performance		
SmartCal Corrected Performance		
Typical Performance	MS46524B/522B	MS46322A/122A
Corrected Source Match	> 35 dB (300 kHz - 8.5 GHz)	≥ 33 dB (1 MHz - 8 GHz)
Corrected Load Match	> 38 dB (300 kHz - 5 GHz) > 33 dB (5 GHz - 8 GHz)	≥ 42 dB (1 MHz - 6 GHz) ≥ 37 dB (6 GHz - 8 GHz)
Corrected Directivity	> 42 dB (300 kHz - 5 GHz) > 36 dB (5 GHz - 8 GHz)	≥ 42 dB (1 MHz - 6 GHz) ≥ 37 dB (6 GHz - 8 GHz)
Transmission Tracking	± 0.08 dB (30 MHz - 8 GHz)	± 0.06 dB (1 MHz - 3 GHz) ± 0.08 dB (3 GHz - 8 GHz)
Reflection Tracking	± 0.08 dB (30 MHz - 8 GHz)	± 0.15 dB (1 MHz - 8 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
MN25208A-004	Option 4, SMA(f) - SMA(f) Connectors

Included Accessories

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

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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

Recommended Accessories

Option 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

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

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