

Quick Fact Sheet

MN25408A SmartCal™ Automatic Calibration Unit



Low Cost USB Automatic Calibration Units

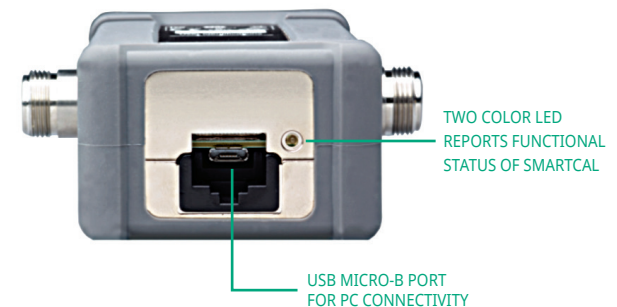
The SmartCal MN25408A is a series of 4-port automatic calibration units covering a frequency range from 300 kHz to 8.5 GHz. The MN25408A is available with three connector set options: Option 001 N(f) connectors, Option 002 K(f) connectors, Option 003 3.5 mm (f) connectors.

The MN25408A 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 MN25408A, along with easyTest, can also be used in guided graphical test procedures to further simplify complex calibrations.

MN25408A SmartCal™ Highlights

- Supports all ShockLine VNAs with 1-, 2-, and 4-port calibration capability.
- 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.
- 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.



Quick Fact Sheet

MN25408A SmartCal™ Automatic Calibration Unit



Key Specifications

Analyzer Performance	
SmartCal Corrected Performance	
Typical Performance	ShockLine MS46522B and MS46524B VNAs
Corrected Source Match	> 35 dB (300 kHz - 5 GHz) > 32 dB (>5 GHz - 8.5 GHz)
Corrected Load Match	> 38 dB (300 kHz - 5 GHz) > 33 dB (>5 GHz - 8.5 GHz)
Corrected Directivity	> 42 dB (300 kHz - 1 GHz) > 40 dB (>1 GHz - 8.5 GHz) >33 dB (>5 GHz - 5 GHz)
Transmission Tracking	± 0.2 dB (300 kHz - 8.5 GHz)
Reflection Tracking	±0.15 (300 kHz-1 GHz) ±0.08 (>1 GHz-5 GHz) ±0.1 (>5 GHz-8.5 GHz)

Product Options


Option Number	Description
MN25408A-001	Option 1, N(f) - N(f) Connectors
MN25408A-002	Option 2, K(f) - K(f) Connectors
MN25408A-003	Option 3, 3.5mm(f) - 3.5mm(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




Simple | Economical | Great Performance

ShockLine™ Vector Network Analyzer Family

Frequency Ranges from 50 kHz to 92 GHz



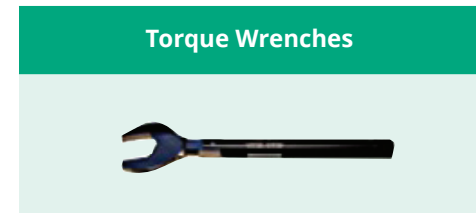
MS46121B 1-port USB VNA
MS46122B 2-port Compact VNA
MS46322B 2-port Economy VNA



Performance E-Band VNA
MS46522B Option 82



Performance VNA
MS46522B 2-port
MS46524B 4-port



Pricing | Ordering | Support
www.anritsu.com