

MODEL CLI-1450

Appendix A: Specifications

SPECIFICATIONS

Frequency

Range: 45 to 559 MHz; 5 to 890 MHz (optional);
sub band option (5 to 80 MHz)
Accuracy: 20 ppm
Tuning Resolution: 25 kHz

Level Measurement

Range: -20 to +50 dBmV
Resolution: 0.1 dB
Accuracy¹: ± 0.75 dB Flatness; ± 0.75 dB Linearity
at 25°C (77°F)
Digital Average Power: ± 2.0 dB (typical)
(Optional)

Scan Mode

Number of Channels: 120
Scan Rate: Approximately 6 carriers / second

Leakage Mode

Level Measurement **Input Sensitivity**
(I.D-3, VMA-3)
Video Detection: From 1.0 μ V with
I.T1000 Leakage Tagger activated (121 to
133.2625 MHz)

CW Detection: From 0.5 μ V (typical)
with LT1000 Leakage Tagger activated
(121 to 133.2625 MHz)
Measurement: From 1.4 μ V
(115 to 140 MHz)
Range: 0.5 to 2,000 μ V (at input connector)
Measure Mode
Accuracy: \pm 1.5 dB @ 25°C (77°F)
Find and Fix Mode
Accuracy: \pm 2.25 dB @ 25°C (77°F)

Tuning

Tunes to video carrier frequencies in the 115 to 140 MHz range
Accuracy: 20 ppm
Resolution: 25 kHz

General

Dimensions: 4.25" (W) x 10.5" (H) x 3" (D)
Weight: 1.36 kg (3 lb.)
Operating Temp. Range: -10 to +50°C (14 to 122°F)
Water Resistance: Meets or exceeds MIL-STD-810D
(Method 506.2)

Powering

Battery Life: 2.25 hours continuous (backlight off),
replaceable battery cartridge
Charge Time: 16 hours max. with unit off

Standard Accessories

4010-00-0114: AC/DC charger/adaptor
1019-00-0479: Battery cartridge for CLI-1450
1019-00-1275: HD-1 Dipole Antenna
6510-00-0416: Operation Manual, Model CLI-1450

Options

LT1000 Leakage Tagger Option
1450DIG: For measuring the average power of digital signals
MSUHF: Frequency extension to cover range: 45 to 890 MHz
MSSUB: Frequency extension to include 5 to 80 MHz, and reverse
ingress scan mode
1019-00-0476: CLI-1450 Soft Carrying Case
DS-1: Vehicle mount "Docking Station"

VMA-3: Magnetic mount $1/4\lambda$ whip antenna
1019-00-0470: Cloning Cable (RS232 Interconnect cable)
1019-00-0558: Charger/Adapter universal input, 12VDC output
4010-00-0119: Charger/Adapter 120VAC to 12 VDC
4010-00-0143: MBC-4 Battery Charger
1019-00-0554: European Charger/Adapter
1019-00-0479: Field replaceable battery cartridge
1019-00-0557: Cigarette Lighter Power Adaptor
MSCLI Printer: Portable serial thermal fusion printer kit
1019-00-0468: P-Stealth printer cable
1019-00-0467: Generic serial printer cable - 25 pin male connector
1019-00-0469: CLI-1450 and microStealth to PC Cable
1019-00-0460: Replacement input Connectors, F/BNC & F/F
3010-16-0025: Flexible Rubber Antenna
1019-00-1275: HD 1 Dipole Antenna
3010-16-0028: HD-1 Antenna Elements
1019-00-1276: HD-1 Pole

Precision F-Connector (MSUHF Option only)

This instrument is designed to perform accurate level measurements at frequencies greater than 550 MHz. In order to achieve the desired accuracy at higher frequencies, a precision F-connector (2110-06-1029) is installed, and a spare is provided. Replace this connector *only* with a WWG approved precision F-connector.

The life of the F-connector will be extended by keeping a test lead attached to the instrument at all times. Avoid using "quick F" connectors or "push-ons" as these are likely to damage the connector. Measurement accuracy at these frequencies is enhanced by using apertures prescribed by amplifier manufacturer. When a probe is not available, a 6 dB pad with good response characteristics throughout the measurement frequency range is recommended at the test point.

For more information about testing at higher frequencies, please refer to WWG's application note, "Considerations in Testing 750 MHz Amplifiers", call 1-800-622-5515, or e-mail to: catvsupport@wavetek.com.

¹Sub band option - 0 dBmV minimum