Product Flyer

Anritsu envision : ensure

Anritsu MA24507A Power Master™

Millimeter Wave Power Analyzer

Remarkable Form Factor

Power Master is the world's first frequency selectable mmWave power analyzer. It is an ultraportable USB-powered instrument that measures the RF power of signals up to 70 GHz and as low as –90 dBm. Unlike spectrum analyzers that are bulky, expensive, and complex or power meters that are not frequency dependent and have limited dynamic range, Power Master enables simple, numeric, frequency-based amplitude measurements of up to six signals from 9 kHz to 70 GHz in a package slightly larger than a cell phone and at an extremely affordable price.

State-of-the-art Technology

By utilizing Anritsu's state-of-the-art ShockLine technology, this smartphone-sized instrument can accurately measure the average RF power of almost any signal within a user defined frequency band, enabling measurements of low power, mmWave signals like 802.11ad, Wireless HD, or E-band wireless communications.

Power Master™ MA24507A Power Analyzer running Power Hunter software.

Features and Benefits

- Able to measure very low power signals as low as –90 dBm
- Excellent for over-the-air testing, especially with mmWave signals that have high propagation loss
- User settings to control measurement speeds and noise floor
- New Channel Monitor mode in PowerXpert for monitoring up to six frequency channels at once
- New Power Hunter mode in PowerXpert for searching up to six signals within a frequency range
- Mounting holes for direct mounting to probes for on-wafer testing

Power Master™ MA24507A Power Analyzer is approximately 6" x 3" x 1" in size and < 1 lb

MA24507A Power Master™

Millimeter Wave Power Analyzer

9 kHz to 70 GHz

Fast. Reliable. Compact.

The MA24507A Power Master™ is an ultraportable, frequency selectable, USB powered mmWave power analyzer.

New PowerXpert Features

To utilize the powerful new capabilities of Power Master, we have added several new features to PowerXpert.

- Support for Power Master general settings, like:
  - Measurement mode
  - Center frequency
  - Span
  - Resolution
- Power Hunter mode: user defines a frequency range within which Power Master will identify the six highest CW amplitudes and their corresponding frequency
- Channel Monitor mode: allows users to select up to six frequency channels (up to 20 MHz wide) and monitor their CW amplitude or channel power simultaneously

Applications

R&D

- Use of frequency selectivity to isolate signals for measurement in design verification or troubleshooting
- In the EMI chamber to characterize transmission capabilities through the air or obstacles
- Capitalize on the small size to connect directly to certain on-wafer probes, improving measurement accuracy and repeatability by reducing cable loss

Manufacturing

- Post-production OTA verification testing of transmitters (testing Bluetooth, WiFi, 802.11ad, LTE in a tablet, for example)

Field

- Troubleshooting wireless backhaul antennas without direct access to transmitters over the air

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