The Harris Radio Frequency Measurement Test Set (RFMTS) is a portable test set that performs comprehensive end-to-end test of electronic countermeasure (ECM) systems.

The Harris AN/PLM-4 RFMTS accessory is designed to be used in conjunction with the AN/PLM-4 Radar Signal Simulator (RSS). The RFMTS is a lightweight, portable test set that performs comprehensive end-to-end tests of ECM systems.

The user can evaluate ECM system functions such as receiver sensitivity, parameter encoding, power output and jam response. In addition, the RSS/RFMTS combination can be used as a diagnostic tool to fault detect or fault isolate malfunctions within the ECM system under test (SUT). Jam response functions include center frequency, peak power, transponder spot-width, jam window and time-gated pulloffs. Tests can be accomplished with either free-space using antennas or direct-coupled using antenna couplers. The RFMTS is self-contained and operates from internal batteries or external AC power.

The RSS/RFMTS combination is controlled using a rugged laptop. The user can be located at the SUT control and displays to visually determine the operability of the ECM system by observing the SUT display. The test set will operate in a fully automatic mode using a SUT specific test program or the operator can perform manual tests for diagnostic purposes. The SUT automatic test program is developed using test program development software, which is supplied as an independent software package.
RADIO FREQUENCY MEASUREMENT TEST SET (RFMTS)

SYSTEM SPECIFICATIONS
- Frequency range: 500 MHz to 18 GHz
- Frequency accuracy: +/- 3 MHz
- Frequency resolution: 1 MHz
- Frequency bandwidth: 0.5, 10 MHz
- Frequency span: 10, 100, 500, 1000, 5000 MHz
- Frequency domain sweep time: Auto couple with frequency span
- Zero span: Yes
- Zero span sweep: 100 nS to 100 seconds
- Zero span accuracy: 100 nS to 1 uS sweep, 1% above 1 uS sweep
- Amplitude range: -65 to +30 dBm
- Amplitude accuracy: +/- 3 dB
- Amplitude resolution: 1 dB
- Maximum power input: +30 dBm
- Reference level range: -50 to +30 dBm
- Input attenuation: 0, 20 dB
- Direct/antenna connection: Yes
- Manual analyzer mode: Yes
- Automatic features: Center frequency, power, bandwidth, PRI, PW, (RGPO when synchronized with RSS)
- User defined functions: Menu driven from PC software
- Power: Universal AC, auto-switching input, self-contained battery charger
- Power saving feature: Operator selected energy saver mode
- Batteries: Two removable lithium ion, extended life
- Environmental: Designed to Mil-T-28800; Class C; Type II
- Temperature range
  - Operating: -40°C to +55°C (-40°F to +131°F)
  - Non operating: -55°C to +85°C (-67°F to +185°F)
- Weight: 25 lbs. (12 kg)

About Harris Corporation
Harris Corporation is a leading technology innovator that creates mission-critical solutions that connect, inform and protect the world. The company's advanced technology provides information and insight to customers operating in demanding environments from ocean to orbit and everywhere in between. Harris has approximately $8 billion in annual revenue and supports customers in 125 countries through four customer-focused business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

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