

# Specifications

Specifications are subject to change without notice.

## MD8475A Signalling Tester

RF Connector	<p>RF Input/Output connector (RF Main, RF Aux1, RF Aux2) Connector: N type, Impedance: 50Ω, VSWR: ≤1.5 (500 MHz to 3 GHz)</p> <p>Reference oscillator Frequency: 10 MHz Level: TTL level Connector: BNC type Startup characteristics: <math>\pm 5 \times 10^{-8}</math> (5 minutes after power-on, referenced to frequency 24 hours after power-on) Aging rate: <math>2 \times 10^{-8}</math>/day, <math>\leq 1 \times 10^{-7}</math>/year (referenced to frequency 24 hours after power-on) Temperature characteristics: <math>\leq \pm 2 \times 10^{-8}</math></p> <p>External reference input Frequency: 10 MHz, Acceptable frequency range: <math>\pm 0.5</math> ppm, Level: <math>\geq 0</math> dBm, Impedance: 50Ω, Connector: BNC type</p>
Transmission Characteristics	<p>Frequency Frequency range: 350 MHz to 3.6 GHz Setting resolution: 100 kHz (Depending on MX847501A used) Accuracy: Based on reference oscillator accuracy</p> <p>Output level Level range: -130 to -10 dBm (Main, Aux1, Aux2) Resolution: 0.1 dB Transmission level (with MX847506A) <math>\pm 1.0</math> dB (-120 dBm ≤ Output level, 350 MHz ≤ Frequency ≤ 3 GHz, 20° to 30°C, after CAL, with MX847506A) <math>\pm 1.2</math> dB (-120 dBm ≤ Output level, 3 GHz &lt; Frequency ≤ 3.6 GHz, 20° to 30°C, after CAL, with MX847506A)</p> <p>Signal purity Non-harmonic spurious: ≤ -40 dBc (at ≥500 kHz frequency offset) Harmonics: ≤ -25 dBc</p>
Reception Characteristics	<p>Frequency Frequency range: 350 MHz to 3.6 GHz Setting resolution: 100 kHz (Depending on MX847501A used)</p> <p>Level Maximum input level: +35 dBm (Average) Input level range: -60 to +35 dBm (with MD8475A-010, MD8475A-011, MD8475A-030, MD8475A-032, MD8475A-050, MD8475A-070) -30 to +40 dBm (in-burst average power) (with MD8475A-020)</p> <p>Reference level: -60 to +35 dBm Reception level (with MX847506A) MX847510A <math>\pm 1.1</math> dB (-60 to +35 dBm, 350 MHz ≤ Frequency ≤ 3 GHz, 20° to 30°C, after CAL) <math>\pm 1.3</math> dB (-60 to +35 dBm, 3 GHz &lt; Frequency ≤ 3.6 GHz, 20° to 30°C, after CAL) MX847520A <math>\pm 1.1</math> dB (-30 to +40 dBm, 350 MHz ≤ Frequency ≤ 3 GHz, 20° to 30°C, after CAL) <math>\pm 1.3</math> dB (-30 to +40 dBm, 3 GHz &lt; Frequency ≤ 3.6 GHz, 20° to 30°C, after CAL) MX847550A <math>\pm 1.1</math> dB (-50 to +35 dBm, 350 MHz ≤ Frequency ≤ 3 GHz, 20° to 30°C, after CAL) <math>\pm 1.3</math> dB (-50 to +35 dBm, 3 GHz &lt; Frequency ≤ 3.6 GHz, 20° to 30°C, after CAL) <math>\pm 2.0</math> dB (-60 to +35 dBm, 350 MHz ≤ Frequency ≤ 3.6 GHz, after CAL)</p> <p>Variable range Rx level setting resolution: 1 dB</p>
General	<p>Display: Color TFT LCD screen, 12.1 inches (wide type), 1280 × 800 dots</p> <p>External interface Trigger I/O: BNC Call Proc Timing I/O: 15-pin mini D-Sub connector Call Proc Serial I/O: D-sub connector, RS-232C level Call Proc Ethernet A/B: RJ45 connector, 10/100/1000BASE-T Handset: RJ-11 connector Headphone: 3.5-mm dia. headphone jack Microphone: 3.5-mm dia. microphone jack USB: USB2.0, Type A, 4 ports RS-232C: D-sub connector, conforms to RS-232C GPIB: IEEE488 connector VGA: Mini D-Sub connector Ethernet 0/1: RJ-45 connector 10/100/1000BASE-T</p>
Power Supply	100 Vac to 120 Vac ( $\pm 10\%$ )/200 Vac to 240 Vac (-15%/+10%, Max.: 250 Vac), 50 Hz to 60 Hz (Rating), ≤600 VA (Max.)
Dimensions and Mass	426 (W) × 221.5 (H) × 398 (D) mm (excl. protrusions), <25 kg (with all options)
Temperature Range & Humidity	Operation: +5° to +40°C, Storage: -20° to +60°C, ≤90% (no condensation)
EMC	EN 61326-1, EN 61000-3-2
LVD	EN 61010-1