### MD8475A Signalling Tester

#### RF Connector
- **RF Input/Output connector (RF Main, RF Aux1, RF Aux2)**
  - Connector: N type, Impedance: 50Ω, VSWR: ≤1.5 (500 MHz to 3 GHz)
- **Reference oscillator**
  - Frequency: 10 MHz
  - Level: TTL level
  - Connector: BNC type
- **Startup characteristics:** ±5 × 10⁻⁸ (5 minutes after power-on, referenced to frequency 24 hours after power-on)
- **Aging rate:** 2 × 10⁻⁹/day, ≤1 × 10⁻⁷/year (referenced to frequency 24 hours after power-on)
- **Temperature characteristics:** ≤±2 × 10⁻⁸
- **External reference input**
  - Frequency: 10 MHz, Acceptable frequency range: ±0.5 ppm, Level: ≥0 dBm, Impedance: 50Ω, Connector: BNC type

#### Transmission Characteristics
- **Frequency**
  - Frequency range: 350 MHz to 3.6 GHz
  - Setting resolution: 100 kHz (Depending on MX847501A used)
  - Accuracy: Based on reference oscillator accuracy
- **Output level**
  - Level range: −130 to −10 dBm (Main, Aux1, Aux2)
  - Resolution: 0.1 dB
  - Transmission level (with MX847506A)
    - ±1.0 dB (−120 dBm ≤ Output level, 350 MHz ≤ Frequency ≤ 3 GHz, 20° to 30°C, after CAL, with MX847506A)
    - ±1.2 dB (−120 dBm ≤ Output level, 3 GHz ≤ Frequency ≤ 3.6 GHz, 20° to 30°C, after CAL, with MX847506A)
- **Signal purity**
  - Non-harmonic spurious: ≤−40 dBc (at ≥500 kHz frequency offset)
  - Harmonics: ≤−25 dBc

#### Reception Characteristics
- **Frequency**
  - Frequency range: 350 MHz to 3.6 GHz
  - Setting resolution: 100 kHz (Depending on MX847501A used)
- **Level**
  - Maximum input level: +35 dBm (Average)
  - Input level range: −60 to +35 dBm
  - Reference level: −60 to +35 dBm
  - Reception level (with MX847506A)
    - MX847510A
      - ±1.1 dB (−60 to +35 dBm, 350 MHz ≤ Frequency ≤ 3 GHz, 20° to 30°C, after CAL)
      - ±1.3 dB (−60 to +35 dBm, 3 GHz ≤ Frequency ≤ 3.6 GHz, 20° to 30°C, after CAL)
    - MX847520A
      - ±1.1 dB (−30 to +40 dBm, 350 MHz ≤ Frequency ≤ 3 GHz, 20° to 30°C, after CAL)
      - ±1.3 dB (−30 to +40 dBm, 3 GHz ≤ Frequency ≤ 3.6 GHz, 20° to 30°C, after CAL)
    - MX847550A
      - ±1.1 dB (−50 to +35 dBm, 350 MHz ≤ Frequency ≤ 3 GHz, 20° to 30°C, after CAL)
      - ±1.3 dB (−50 to +35 dBm, 3 GHz ≤ Frequency ≤ 3.6 GHz, 20° to 30°C, after CAL)
- **Variable range**
  - Rx level setting resolution: 1 dB

#### General
- **Display:** Color TFT LCD screen, 12.1 inches (wide type), 1280 × 800 dots
- **External interface**
  - Trigger IO: 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

#### Power Supply
- 100 Vac to 120 Vac (±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