Radio Communication Test Station MT8000A Layout

System Configuration



1 Radio Communication Test Station MT8000A

All-in-one test platform supporting 5G RF measurements and protocol tests.

28 GHz RF Converter MA80001A/39 GHz RF Converter MA80002A Convert frequency of RF signal output from MT8000A to 28 GHz and 39 GHz band.

8 RF Chamber MA8171A

For 5G RF measurements/protocol tests in OTA environment.

4 Position Controller MA8174A

Controls the Positioner MA8175A rotational angle inside the RF Chamber MA8171A.



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Peripherals

28 GHz RF Converter MA80001A

RF Input/Output Connector		Port 1, Port 2 Connector: K (m) Impedance: 50Ω (nom.) VSWR (when transmitted): ≤ 2.5 (23.75 GHz \leq frequency ≤ 30 GHz) VSWR (when received): ≤ 2.5 (23.45 GHz \leq frequency ≤ 30.3 GHz)
Transmission Characteristics		Frequency Setting range: 24.25 GHz to 29.5 GHz (Center frequency setting range of measurement software) Setting resolution: 1 Hz Accuracy: Depend on accuracy of MT8000A reference oscillator Level Setting range: -90 to +5 dBm Setting resolution: 0.1 dB Accuracy: ±1.5 dB (+18°C to +28°C, after Cal, with CW) Signal purity Non-harmonic spurious With CW, maximum output level ≤-40 dBc (non-harmonic on setting frequency ±500 MHz, non-harmonic, exclude setting frequency ±50 MHz) ≤-30 dBc (23.75 GHz ≤ non-harmonic frequency ≤ 30 GHz, exclude setting frequency within ±500 MHz and -4500 MHz) Maximum modulation bandwidth: 1 GHz
Receiving Characteristics		Frequency Setting range: 24.25 GHz to 29.5 GHz (Center frequency setting range of measurement software) Setting resolution: 1 Hz Level Maximum input level: +20 dBm, 0 VDC (with CW) Setting range: -70 to+5 dBm Setting resolution: 0.1 dB Amplitude Measurement resolution: 0.01 dB Measurement accuracy: At the signal equal to the setting frequency and the setting level After Cal, with CW, 24.25 GHz ≤ setting frequency ≤ 29.5 GHz, measurement bandwidth 100 MHz, +18°C to +28°C ±1.5 dB (-50 dBm ≤ setting level ≤ +5 dBm) ±2.5 dB (-70 dBm ≤ setting level < -50 dBm)
IF Input/Output Connector		Connect to MT8000A: B Connector: N (f) Impedance: 50Ω (nom.)
External Control Connector		Round multiway type connector
DC Input Connector		Voltage: 12 VDC Current: ≤3 A
Dimensions and Mass		Dimensions: 92 (W) × 175 (H) × 260 (D) mm (excluding projections) Mass: ≤6 kg
Environmental Conditions		Operating temperature range: +5°C to +40°C (without condensation) Storage temperature range: -20°C to +71°C (without condensation)
CE	EMC	2014/30/EU, EN61326-1, EN61000-3-2
	LVD	2014/35/EU, EN61010-1
1	RoHS	2011/65/EU, EN50581



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