High-speed programmable attenuator

MAT810

There are no chattering and spike at switching moment
because of differing from traditional mechanical attenuator.

The precise simulation of wireless communication is capable by setting the attenuation step small.

The frequency band is divided into sixteen and the calibration is done at each frequency
so that the frequency characteristics of attenuation is made flat.

Specifications

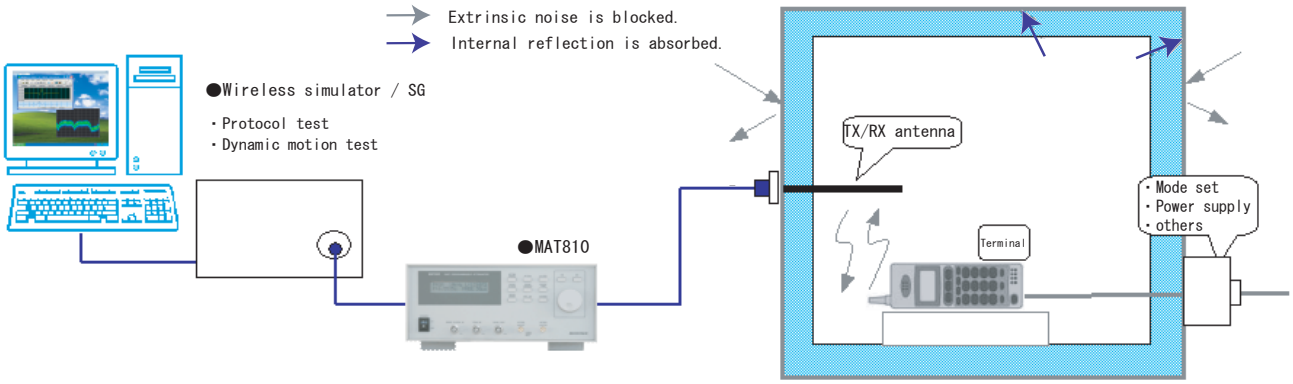
Frequency range	300MHz to 6.6GHz
VSWR	less than 1.8@1 to 4.5GHz less than 2.2@0.3 to 6.6GHz
Maximum attenuation	60dB
Setting resolution	0.05dB
Accuracy (at each calibration frequency point and +10dBm input)	±0.6dB@0 to 15dB ±1.0dB@15 to 35dB ±1.2dB@35 to 50dB ±1.8dB@50 to 56dB ±2.2dB@56 to 60dB
Insertion loss	less than 6.4dB@2GHz
Maximum input level	25mW@1dB compression
Input damage level	+20dBm, 50VDC Max
Input/output connector	SMA(J)

※ Other specifications are the same as MAT800 series.

＜Application examples＞

WiMAX, Mobile phone, W-LAN, RFID, Bluetooth, Micro-power radio,
Car navigation, ETC&DSRC and digital terrestrial broadcasting etc.

Transmission characteristics test of wireless equipment



① The bidirectional communication between the wireless simulator and the terminal unit put in the anechoic box is performed through TX/RX antenna installed in the box.

② Each protocol test (layer one to three) is done by using the simulator.

③ Handover test and fallback test is available, too.

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