

1903A

NOISE GENERATOR

Analog TV development & production facilities



General

This unit is noise generator that generates white noise widely in the band of 1 MHz ~ 1600 MHz. Attenuator to vary output power is built-in, so that this unit is used for several tests suitably.

Composition

Main Unit	1
Dimensions	425(W) × 99(H) × 380(D) mm (Excluding projections)
Weight	Approx. 20 kg
Accessories	
Power Cable (Including 3pin 2pin converter)	1
Rack Mount Adapter.....	1set
Instruction Manual and Test Result Sheet	1

Power Source	
Input Voltage Allowable Range	: AC90V ~ AC250V (50Hz/60Hz)
Power Consumption	: Approx. 20VA
Operating Environment	
Temperature	: +5 ~ +40
Humidity	: 45% ~ 85%RH (No dew generation)

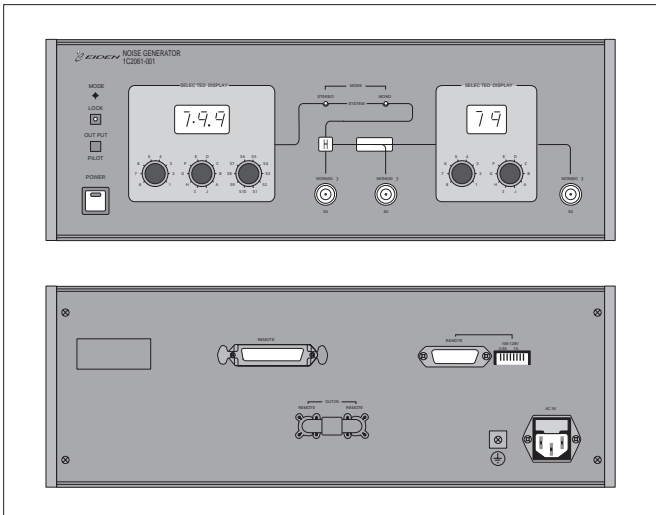
Rating

- **Frequency Range**
1 MHz ~ 1600 MHz
- **Output Impedance**
50
- **Output Connector**
BNC-R
- **Output SWR**
Less than 1.3
- **Output Power**
- 30 dBm/BW= More than 3 MHz
Definition of output power... When Output attenuator is 0 dB, power per 1 Hz at 100 MHz is measured by spectrum analyzer and is converted to 3 MHz range.
- **Output Attenuator**
Max. Attenuation 61dB/0.1dB step (Tolerance within ±3% + 0.2 dB)
(10 dB × 5, 1 dB × 10, 0.1 dB × 10)
- **Frequency Response**
100 MHz Reference Within ±2 dB 1 MHz ~ 1000 MHz
 Within ±3 dB More than 1000 MHz

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White noise generator, combiner, DC block, variable resistance attenuator and etc. needed when " Input signal CN ratio versus video output signal S/N ratio " is measured on IF (1200MHz) in BS system and CS system, are assembled in 1 case, so that measurement with high resolution of 0.1dB can be made easily. Also, directional coupler is built-in in this unit, so that a part of signal can be monitored by spectrum analyzer and etc. simply.

Composition

Main Unit	1
Dimensions	425(W) × 149(H) × 380(D) mm (Excluding projections)
Weight	Approx. 10 kg
Accessories	
Power Cable (Including 3pin 2pin converter)	1
Rack Mount Adapter.....	1set

Instruction Manual and Test Result Sheet	1
GP-IB Cable	1
Power Source	
Input Voltage Allowable Range	: AC100V (50Hz/60Hz)
Power Consumption	: Approx. 20VA
Operating Environment	
Temperature	: +5 ~ +40
Humidity	: 45% ~ 85%RH (No dew generation)

Rating

- **Operating Frequency Range**
900MHz ~ 2000MHz
- **White Noise Output Level (In total power of 500 ~ 2100MHz)**
More than +3dBm (At rear panel output) 50
More than -36dBm/Hz at 1500MHz (At output terminal) 50
- **White Noise Output Deviation**
Within ±2.5dB
- **Attenuator for Output Variation**
Variable attenuator for white noise
0 ~ 79.9 (10dB × 7, 1dB × 9, 0.1dB × 9)
Variable attenuator for output
0 ~ 79 (10dB × 7, 1dB × 9)
- **External Signal Input Impedance**
50
- **Output Monitor Terminal Impedance**
50
- **Output Monitor Level**
Approx. -23dBm
- **Output Impedance**
50