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White Light Source

AQ4305

A high power white light source for optical devices and optical fibers characterization



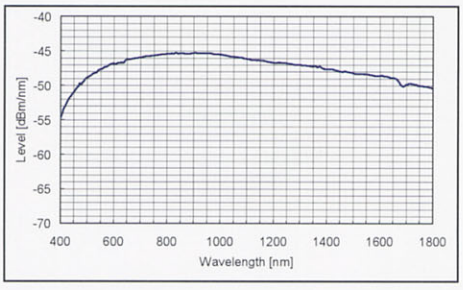
Outline

The AQ4305 White Light Source provide incoherent light to measure wavelength dependent loss characteristics for optical devices and optical fibers, in conjunction with an optical spectrum analyzer. The AQ4305 higher power density (more than 5dB at 1310nm) compared to previous model allows significantly faster sweep time of the optical spectrum analyzer. The wide wavelength range 400 to 1800nm provides various applications from visible band to all telecomm band.

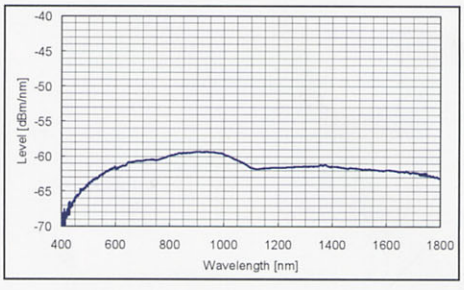
Feature

- **High power: -40dBm or more (at 50/125 μm MMF)**
- **Optical output: Free space**
- **High output stability of +/-0.05dB**

Spectrum



Optical Power GI50/125 μm(RBW:10nm)



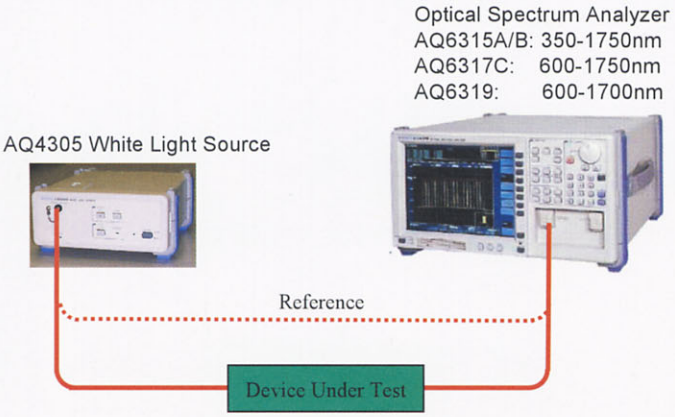
Optical Power SM10/125 μm (RBW 10nm)

ANDO Electric Co., Ltd.

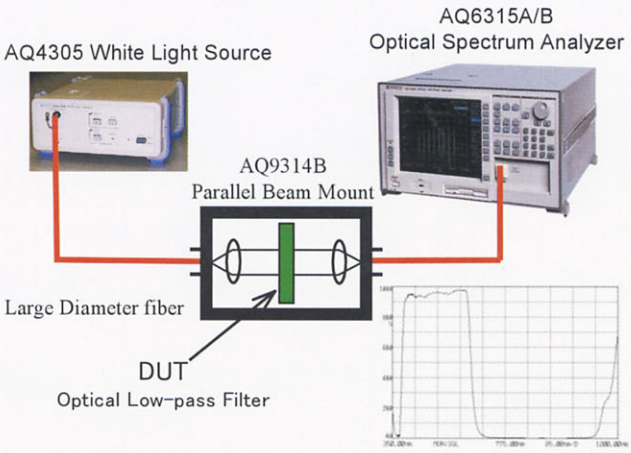
White Light Source AQ4305

Application

Basic configuration for optical fibers and optical component characterization



Visible band filter characterization with AQ6315A Optical Spectrum Analyzer



Specifications

Wavelength range	400 to 1800 nm
Optical output level *1) *2)	-40 dBm or more (50/125μm MMF : 2m, wavelength : 850 nm and 1310nm, spectrum band width : 10 nm) -55 dBm or more (10/125μm SMF : 2m, wavelength 1550 nm, spectrum band width : 10nm) -58dBm/nm (typ.) (50/125μm MMF : 2m, wavelength range : 400 to 1100nm) -65dBm/nm (typ.) (10/125μm SMF : 2m, wavelength range: 700 to 1700 nm)
Output stability *1	±0.05dB (23±2 °C, one hour)
Functions	Optical output : ON/OFF Lamp : ON/OFF
Interface	GP-IB
Applicable optical connector	FC/PC type
Lamp	Halogen lamp (DC12V/50W), Life: 50 hours
Power requirement	AC100 to 120V(±10%) /200 to 240V(±10%), 50/60Hz, Approx.100VA
Environment conditions	Operation temperature : +5 to +40 °C Storage temperature : -10 to +50 °C Humidity : 80%RH or less (not condensation)
Dimension and mass	Approx. 212(W) X 88(H) X 250(D) mm, Approx. 3kg
Accessory	Power coed : 1, Instruction manual : 1, Halogen lamp:5 Hexagon driver : 1

*1) after warm up one hour, after optical alignment.
*2) Specified fiber type; MMF=[ITU-T G.651], SMF=[ITU-T G.652]

Note) Specifications are subject to changed without notice.

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