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Find the *Yokogawa / Ando AQ2141* at our website: ***Click HERE***

(For use with the AQ2141 Optical Multimeter Expansion Frame)

ASE Unit AQ4310



General

The AQ4310 utilizes the ASE (amplified spontaneous emission) from EDF (erbium0doped fiber) to provide +10dBm (typ.) high power output for a spectral of 40nm or more.
The AQ4310 is perfect for evaluation of passive optical devices with high crosstalk.

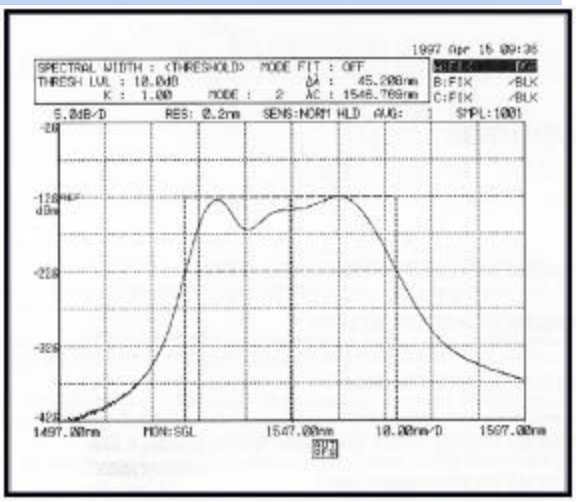
Application

- Evaluation of loss wavelength characteristics for passive optical devices (FBG, etc.).
- Polarization dependency loss (PDL) for passive optical devices (FBG, etc.).

**FBG: Fiber Bragg grating*

Features

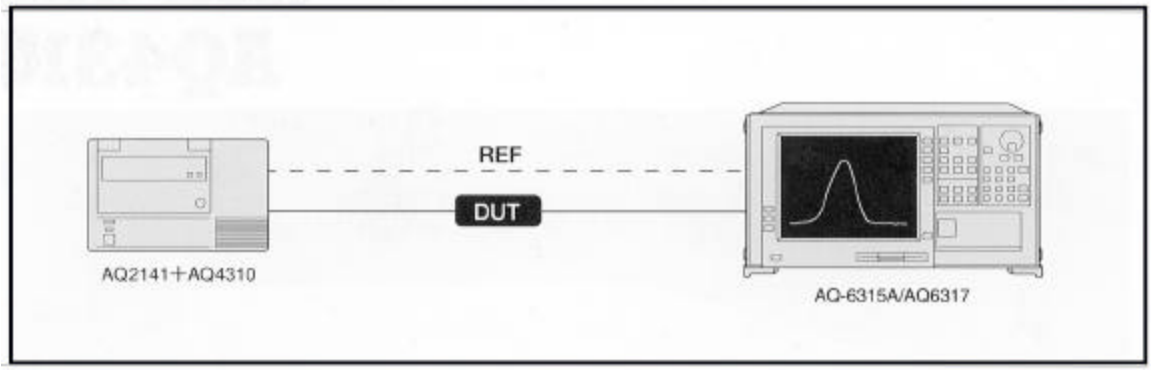
- High output level: +10dBm (typ.)
- Superlative stability: ±0.005dB
- Unit type can be mounted on the AQ2141



Luminous characteristics of ASE unit

Application Example

The ASE Unit is mounted in the AQ2141 Optical Multimeter Expansion Frame and used to evaluate loss wavelength characteristics for passive optical devices.



Specifications

Model	AQ4310 (155)
Center frequency [1],[2]	1550±20nm
Spectral bandwidth [1],[3]	40nm or more
Optical output level [1],[4]	+8dBm or more (+10dBm typ.)
Output level stability	
Temperature stability [5]	0.3dB or less
Time stability	Within ±0.005dB [1].[6]
	Within ±0.05dB[1],[7]
Optical modulation mode [8]	CW
Simple optical attenuation function [9]	0 to 6.0dB (0.1dB steps)
Polarized light blocking ratio	0.1dB typ.
Optical connector	AQ9434 [*] Universal Connector (option)
Applicable fiber	10/125 SM fiber
GP-IB [9]	Complies with IEEE-488
Operating temperature range	0 to 40°C
Dimensions	Approx. 125(W) × 72(H) × 324(D)mm
Mass	Approx. 2.5kg
Accessories	Connector protective cap: one, instruction Manual: one

- The AQ2141 optical Multimeter Expansion Frame is required to use this unit.

NOTES:

[1] CW light, 0.0dB attenuation, SM fiber (10/125) 2m emission end.

[2] At 25°C. Center frequency indicated for RMS (2σ,-20dB)

[3] At 25°C. Spectral bandwidth indicated for –10dB from peak wavelength.

[4] At 25°C.

[5] 0 to 40°C (8 hours), 0.0dB attenuation, CW light, connector emission end.

[6]Constant temperature, 5 minutes (one temperature between 20 and 30°C).

[7] ± 1°C between 0 and +40°C (one hour)

[8] Controlled by AQ2141. Chopped light output is possible, but output characteristics are nit assured. Chopped light output is not square wave. The chop frequency is set at the AQ2141 to 270Hz. Settings of 1kHz and 2kHz are possible, but optical signal strength may be extremely weak.

[9] Controlled by AQ2141.

[10] * Is connector type. Specify FC, SC, ST, DIN or HSM-10/A. Consult your vendor or our sales office for other types.

Options

AC9434(*) Universal Adapter

Note:* is connector type. Specify FC. SC, ST, DIN or HSM-10/A. Consult your vendor or our sales office for other types.

Specifications are subject to change without notice.

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