

ASE C+L Band Broadband Light Source



Module type



Desk-top type

Applications

Optical fiber sensing
 PLC, CWDM, DWDM, Film testing
 Optical fiber grating testing
 Fiber Optic Gyroscope (FOG)
 Optical coherence tomography (OCT)

Features

High output power
 High spectral stability
 Broadband spectrum
 Low noise
 Low polarization and low coherent

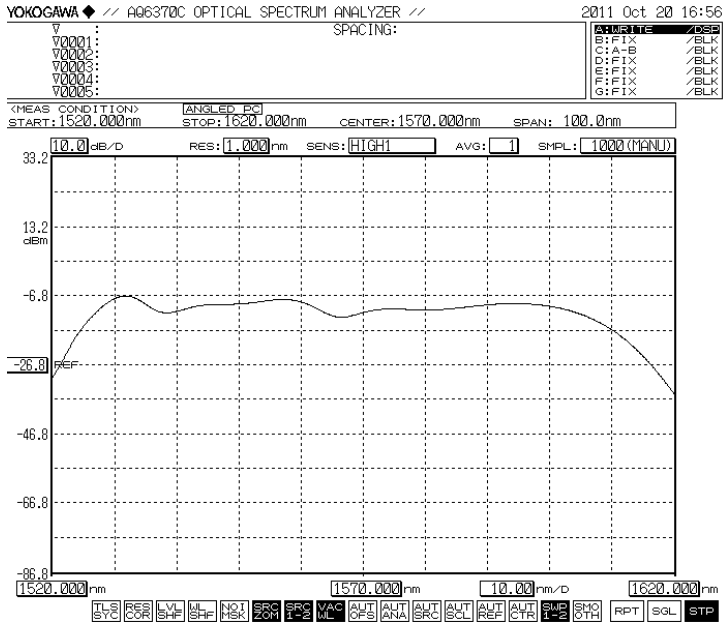
Specifications

Parameters	ASE-C+L	
GFF	No	GFF
Operating wavelength (nm)	1525~1607, etc	1528~1600, etc
Flatness (dB)	≤ 7	≤ 2
Output power (dBm)	10~21	7~17
Power spectral density (dBm/nm)	≥ -17	
Spectral stability (dB)	$\leq \pm 0.05(5 \text{ min})$	
Output power short-term stability (dB) 1	$\leq \pm 0.02(5 \text{ min})$	
Output power long-term stability (dB) 2	$\leq \pm 0.03(8 \text{ hour})$	
Degree of Polarization (DOP)	$\leq 5\%$	
Pigtail fiber	SMF-28	
Connector type	FC/PC, FC/UPC or FC/APC, etc	
Operating temperature (°C)	0 ~ +65	
Storage temperature (°C)	-20 ~ +70	
Relative humidity (%)	20 ~ 80	
Power Supply	+5V DC; >500mA; $\Delta V < 1\%$ (Module); AC 110/220V $\pm 10\%$, 50Hz, 20W(Desk-top)	
Maximal Power Consumption	10 W	
Dimensions (L×W×H, mm)	100×80×20(Module), 320×220×90(Desk-top)	

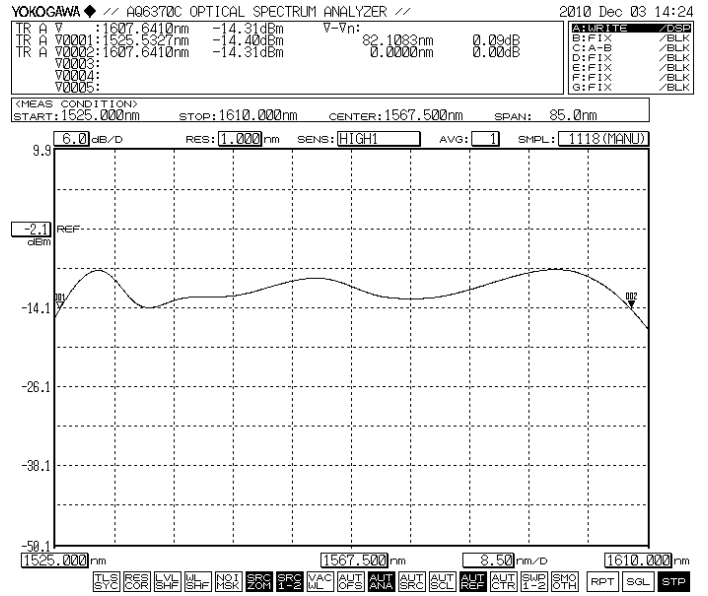
Remark: Stability is tested at room temperature $25 \pm 2^\circ\text{C}$ after pre-heating 30 minutes.

1. Test condition: fixed temperature, CW.
2. Test condition: temperature variation $\pm 2^\circ\text{C}$, CW.

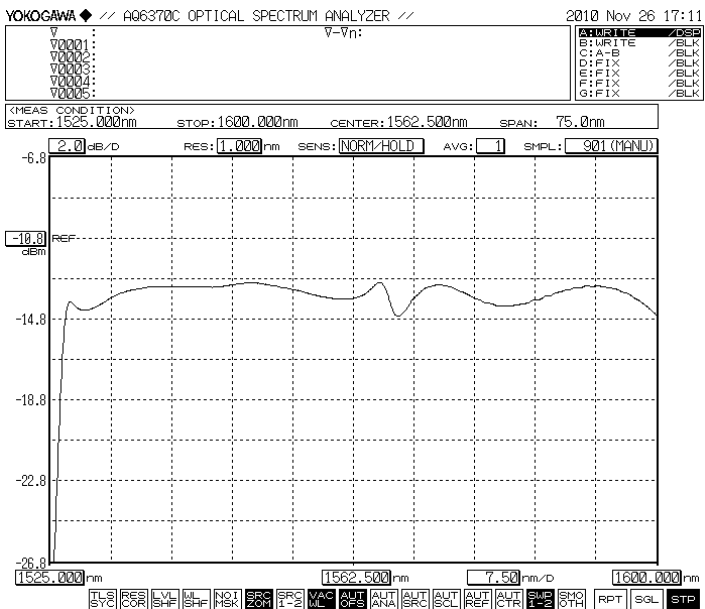
Typical spectrum



Without GFF at 10 dB Flatness



Without GFF at 6 dB Flatness

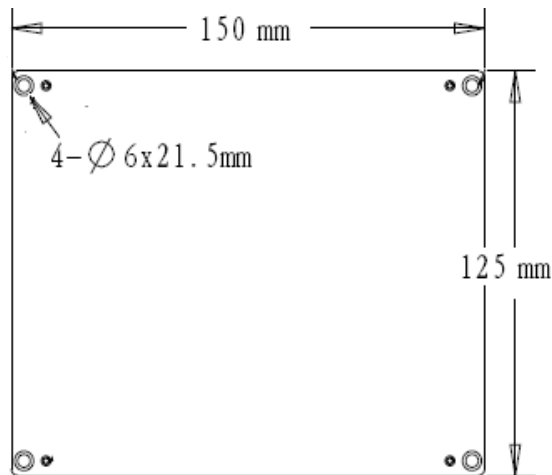


With GFF at 2 dB Flatness

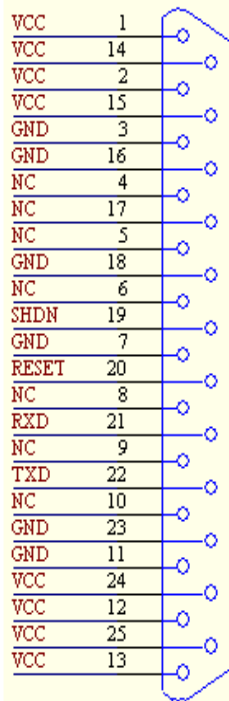


With GFF at 5 dB Flatness

Installation of Module



Definition of Connector



Pin	Description	Pin	Description
1	5 power(± 10%)	14	5 power(± 10%)
2	5 power(± 10%)	15	5 power(± 10%)
3	Ground	16	Ground
4	NC	17	NC
5	NC	18	Ground
6	NC	19	Pump Laser Module On/Off 1: OFF 0: ON
7	Ground	20	Reset Input 1: Enable 0: Disable
8	NC	21	RS-232 Input (TTL)
9	NC	22	RS-232 Output (TTL)
10	NC	23	Ground
11	Ground	24	5 power(± 10%)
12	5 power(± 10%)	25	5 power(± 10%)
13	5 power(± 10%)		

Ordering Information

ASE-C+L	Package Type	GFF	Output Power	Fiber Type	Connector
	M=Module D=Desk-top	G=With GFF N=Without GFF	10=10mW 20=20mW etc	S=SM Fiber P=PM Fiber	FC/UPC FC/APC etc