C-band ASE Light Source

Specifications

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• Preparations before use

This machine is warranted from any failure in normal operation as the machine is fully inspected mechanically and electrically before shipment from the factory. As soon as you receive the cargo, unpack and make certain that the machine is not damaged in transit.

1. Included Items

If any missing items are found upon inspection, contact us immediately.

We recommend that the carton box and the inner corrugated boards should be kept with care to avoid damage in case of reuse for transfer to another location.

2. Acceptance Inspection

(1) Mechanical movement check

As to external appearance, movement of the switch, the pump on button, the adjust dial, and connectors, carry out inspection under the condition of being the power supply off to look for possible damage or trouble caused in transit.

(2) Operation check

When no trouble is found upon mechanical movement check, carry out operation test to check functions, followed by the instructions of Operation Manual.

(3) Upon finding damage or anomalies

If, during acceptance inspection, damage to the machine or anomalies in connection with the specifications is found, contact us immediately with details of the trouble.

・Specifications

Desktop type

Product No.	ASE-C-10S	ASE-1550-25	ASE-FL7010	ASE-FL7012	ASE-FL7013	ASE-FL7050	ASE-1560-G20
Total Output Power	≥ +10 dBm (≥ 10 mW)	≥ +14 dBm (≥ 25 mW)	≥ +16 dBm (≥ 40 mW)	≥ +16 dBm (≥ 40 mW)	≥ +16 dBm (≥ 40 mW)	≥ +22 dBm (≥ 155 mW)	≥ +13 dBm (≥ 20 mW)
Wavelength	C-band						
Spectral Power Density	≥ -16 dBm/nm @1530~1560 nm	≥ -10 dBm/nm @1530~1560 nm	≥ -8 dBm/nm @1530~1560 nm	≥ -7 dBm/nm @1530~1570 nm	≥ -3 dBm/nm @1531~1563 nm	≥ 0 dBm/nm @1530~1560 nm	Gaussian like shape FWHM : ≥ 8 nm
Output Power Stability (Typical) *1	≤ ± 0.05 dB	≤ ± 0.005 dB (≤ ± 0.001 dB)					≤ ± 0.01 dB
Output Fiber	Corning SMF28						
Optical Connector	FC / PC						
Size *2	44 × 112 × 120 mm	66×160×230 mm	88 × 260 × 350 mm				
Operation Temperature	0 ~ 40 ℃						
Storage Temperature	-10 ~ 60 ℃						
Weight	≤ 1kg	≤ 5 kg					
Power Supply	DC 6V / 2A Attached AC adapter	AC 100 ~ 240V (50/60 Hz)					
Laser Class (Max Output Power)	Class 3R Laser product (≤ 20 mW)	Class 3R Laser product (≤ 50 mW)				Class 3B Laser product (≤ 200 mW)	Class 3R Laser product (≤ 50 mW)

*1: 15minute after 1hour warm-up
*2: not including protrusions

・Option

Option 012	FC / Angled PC optical connector
Option 013	SC / PC optical connector
Option 014	SC / Angled PC optical connector
Option 041	Polarized output
Option 081 *	With attenuator

・Standard attached items

This instrument	1 unit
Power cord	1 pcs
Spare fuse	1 pcs (stored in the fuse box of the AC inlet)
Specifications (by these presents)	1 copy
Operation Manual	1 copy
Final Test Inspection Record	1 copy

* For products with Opt.081, the maximum value of Total Output Power and Spectral Power Density is the standard specification -1dB.

Module type

Product No.	ASE-C-10S-Md	ASE-Md1550-25	ASE-Md1560-G20	ASE-FLMd7010	ASE-FLMd7012	ASE-FLMd7013	ASE-FLMd7050	ASE-Md1550-25 -MSA
Total Output Power	Optical properties conform to the desktop type							≥ +14 dBm (≥ 25 mW)
Wavelength								C-band
Spectral Power Density								≥ -8 dBm/nm @1530~1560 nm
Output Power Stability (Typical) *1								≤ ±0.005 dB (≤ ±0.001 dB)
Output Fiber								SMF
Optical Connector								FC/PC
Monitor function	Output power	Output power / Pumping LD current / Pumping LD temperature						Output power
Alarm function *3	Output power	Output power / Pumping LD current						Output power
Control function	Pumping LD operation is shut down by TTL level L							
Size *2	18 × 120 × 90 mm			35 × 190 × 132 mm				12 × 90 × 70 mm
Operation Temperature	0 ~ 60 °C							
Storage Temperature	-20 ~ 70 °C							
Weight	≤ 0.5 kg			≤ 1.5 kg				≤ 0.5 kg
Power Supply	DC 5.1 ~ 5.4 V ≤ 13 VA						DC 5.1 ~ 5.4 V ≤ 26 VA (13VA x 2)	DC 5.1 ~ 5.4 V ≤ 13 VA
Laser Class (Max Output Power)	Class 3R Laser product (≤ 20 mW)	Class 3R Laser product (≤ 50 mW)					Class 3B Laser product (≤ 200 mW)	Class 3R Laser product (≤ 50 mW)

*1: 15minute after 1hour warm-up
*2: not including protrusions
*3: Output power alarm：Decline of the output power (normal:H / alarm:L)
Pumping LD current alarm：Excess of the pump-LD current (normal:H / alarm:L)
* Refer to attached "Final Test Inspection Records" for detail of pin assigns & threshold values of alarm

・Option

Option 012	FC / Angled PC optical connector
Option 013	SC / PC optical connector
Option 014	SC / Angled PC optical connector

・Standard attached items

This instrument	1 unit (Attached flat cable)
Specifications (by these presents)	1 copy
Operation Manual	1 copy
Final Test Inspection Record	1 copy