CATV

77BEYA Series 1U 8*22dBm+OSW+WDM Fiber Amplifier



Performance Feature

- Adopt Er-Yb co-doped double-clad fiber technology and low-noise pump laser.
- With a display backlight control function, allowing users to adjust the backlight time as needed.
- With a comprehensive audio-visual alarm function, supporting dual alarm through indicator lights and a buzzer.
- The entire machine adopts a modular design, making it easy to maintain and manage.
- Standard network management interface, supporting both WEB management and SNMP, with a feature-rich WEB interface.
- The 1U supports a maximum total output of 6.5W(38dBm) and offers adjustable output power, with an adjustable range of +0.5~-4dBm.
- Optional functions include optical switch, optical transmitter, and RF monitoring.
- Optional WDM function is available, achieving triple-play integration.
- One-click pull-out dual power supply hot backup design.
- Optional time management and remote monitoring by mobile phone are available

Product Application

The 77BEYAxx series Er-Yb fiber amplifier is a high-power multi-output fiber amplifier with a gain spectrum bandwidth of 1545~1560nm. It is designed for CATV or applications with 18 continuous channel strips (ITU wavelengths). It provides a flexible and low-cost solution for FTTH large-scale coverage in major cities for CATV systems.

The 77BEYAxx can achieve single-wavelength transmission of CATV signals or implement single-fiber three-wave transmission design through built-in FWDM. It is an important equipment for building large and medium-sized fiber transmission networks for CATV.

Technical Parameters

Item		Unit	Specification	Note
CATV Wavelength		nm	1545~1560	Central wavelength 1550nm
PON OLT wavelength		nm	1270/1310/1490/1577	
CATV Input power		dBm	-5dBm~+10dBm	Limit -10dBm~+10dBm
Maximum total output optical power		dBm	38	
Output power stability		dB	±0.1	
Noise figure		dB	≤ 6	
Return Loss	Input	dB	≥ 45	
	Output	dB	≥ 45	
OSW	Number of input ports		2	
	Insertion loss	dB	≤1.3	
	Switching time	s	< 0.5	
Output Ports	SC/LC	PCs	8	
Output power per port		dBm	22	
Rx TEST output level		dBuV	≥56	+2 dBm to -7 dBm (analog)
Optical connector type			SC/APC; SC/PC; LC/APC; LC/PC	+2 dBm to -10 dBm (digital) Customizable
C/N		dB	≥ 50	The test conditions shall be carried out in accordance with GD/J115-2020.
C/CTB		dB	≥ 65	
C/CSO		dB	≥ 65	
Power supply voltage		V	AC： 110V/220V DC:48V	
Overall power consumption		W	< 60	
Operating temperature range		℃	-5 - +50	
Maximum operating relative humidity		%	Maximum 95% without condensation	
Storage temperature range		℃	-40 ~ +80	
Maximum storage relative humidity		%	Maximum 95% without condensation	
Overall chassis dimensions		mm	482(W)*356(D)*44(H)	Without handle
Packaging dimensions (1 unit)		mm	590(W)*505(D)*115(H)	
Packaging dimensions (2 units)		mm	590(W)*505(D)*220(H)	
Packaging dimensions (5 units)		mm	590(W)*505(D)*525(H)	