CATV

77BEYA Series 2U 16*22dBm+WDM+OSW Optical Fiber Amplifier



Performance Characteristics

- Erbium-Ytterbium co-doped double-clad fiber technology and low-noise pump lasers.
- With display backlight control function, the user can adjust the backlight time as needed.
- With perfect sound and light alarm function, support dual alarm of indicator light and buzzer.
- The entire EDFA adopts modular design, making it easy to maintain and manage.
- Standard network management interface, support WEB network management and SNMP, WEB interface is rich in functions.
- The 2U product supports total output power up to 41dBm, and supports the output power adjustable function with an adjustable range of +0.5~-4dBm.
- Optical switch, optical transmitter, RF monitoring and other functions are optional.
- Optional WDM for triple play function.
- Dual power supply with one-touch pull-out and hot backup design.
- Optional time control function and mobile phone remote monitoring function are available.

Applications

77BEYAxx Ytterbium-Erbium series of fiber amplifiers is a high power, multi-output fiber amplifier with a gain spectral bandwidth of 1545-1560nm, designed for CATV or 1-8 consecutive band channels (ITU wavelengths) applications. It provides a flexible and low-cost solution for FTTH coverage of CATV systems in large and medium-sized cities.

77BEYAxx can achieve single wavelength transmission of CATV signals, or built-in FWDM to achieve single-fibre three-wave transmission design, which is an important equipment for building CATV large and medium-sized optical fibre transmission networks.

Technical parameters

Item		Unit	Technical parameters	Remark
CATV working wavelength		nm	1545~1560	centre wavelength 1550nm
PON OLT working wavelength		nm	1270/1310/1490/1577	
CATV Input power		dBm	-5dBm~+10dBm	Limit -10dBm~+10dBm
Output power stability		dB	±0.1	
Noise		dB	≤ 6	
Reflective loss	Input	dB	≥ 45	
	Output	dB	≥ 45	
OSW	Input port		2	
	insertion loss	dB	≤1.2	
	switching time	s	< 0.5	
Output ports	SC/LC	PCs	16	
Output power per port		dBm	22	
Rx TEST output level		dBuV	≥56	+2 dBm to -7 dBm (analog) +2 dBm to -10 dBm (digital)
Optical connector type C/N			SC/APC；SC/PC；LC/APC；LC/PC	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	
Maximum power consumption		W	< 150	
Maximum operating relative humidity		℃	-5-+50	
Storage temperature range		%	Maximum 95% without condensation	
Storage temperature range		℃	-40~+80	
Overall chassis dimensions		%	Maximum 95% without condensation	
Product net size		mm	480(W)*428(D)*89(H)	Don’t include handles
Package dimension(1 unit)		mm	610(W)*590(D)*155(H)	