NE6200
Telecom EDFA

Features

- 1 RU, 19”, 21”, 23” rack housing, front panel LCD display
- High reliability pump laser diode
- 10 to 22 dBm in full output power range
- Low noise figure
- Low power consumption.
- Status and alarm monitoring function.
- A/B power supply for automatic power backup operation

Applications

- Optical power booster for optical networks
- In-line amplification for the optical transport in long haul and metro networks
- Boost optical power for receiver module of long haul and metro networks.
- Small signal amplification for test equipment

Product Description

The NE6200 series products are well designed for applications of telecom systems. Booster can provide precise output power control (APC) to offer the immunity of power degradation from the wavelength drift and the transmitter. Full range of 10~22dBm output power is available to satisfy various requirements.

In-Line amplifier can provide high signal gain to compensate the fiber or device loss over wide operating wavelength range. Pre-amplifier is placed in front of receivers to provide high gain and low noise figure over wide wavelength range for receiver sensitivity improvement.

Several user-friendly interfaces are available to support flexible parameter reading and setting. Status messages can be accessed through the front panel, RS232, relay, modem, or SNMP interfaces.

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Optical Specifications

Optical Wavelength	1550±10 nm
Optical Input Power Range	-6~+3 dBm (booster); -30~-10dBm (in-line); -40~-20dBm (pre-amp)
Optical Output Power	10~22 dBm (booster)(0dBm input power@1550nm)
Signal Gain	22dB (in-line)(-20dBm input power@1550nm) 25dB (pre-amp)(-25dBm input power@1550nm)
Noise Figure	4.5dB typ. for output power of 10~18 dBm (booster) 5.0dB typ. for output power of 19~20 dBm (booster) 5.5dB typ. for output power of 21~22 dBm (booster) (0dBm input power@1550nm) 4.5dB typ. (in-line) (-20dBm input power@1550nm) 4.5dB typ. (pre-amp) (-25dBm input power@1550nm)
Polarization Sensitivity	0.3 dB
Polarization Mode Dispersion	≤0.5 ps
Optical Input/Output Isolation	≥25 dB/≥25 dB for output power of 10~16 dBm ≥25 dB/≥45 dB for output power of 17~22 dBm

General Specifications

Operation Temperature Range	0~50 degC
Storage Temperature Range	-20~60 degC
Power Supply	-48 VDC
Power Consumption	≤27W (booster); ≤11W (in-line); ≤11W (pre-amp);
Dimension in mm	482Wx270Dx45H (19”); 523Wx270Dx45H (21”); 584Wx270Dx45H (23”)
Control Interface	Modem/RS-232/SNMP
Weight	6 Kg

Ordering Information

NE6200-xx-xx-z-p-q-r-mm-nn

xx	EDFA application	xx=B: Booster;
		xx=I: In-line for 2.5GHz (input range: -10~-30dBm);
		xx=IA: In-line for 10GHz (input range: -10~-20dBm);
		xx=IB: In-line for 2.5/10GHz (input range: -10~-30dBm);
		xx=P: Pre-amp for 2.5GHz (input range: -20~-40dBm);
		xx=PA: Pre-amp for 10GHz (input range: -10~-30dBm);
		xx=PB: Pre-amp for 2.5/10GHz (input range: -15~-35dBm);

yy	Optical Output Power or Gain	yy=10~22: 10~22 dBm for booster; yy=22: 22 dB gain for in-line (-20dBm 1550nm Input) xx=25: 25 dB gain for pre-amp (-25dBm 1550nm Input)
z	Control Interface	z=0: None; z=1: Modem; z=2: RS232; z=3: SNMP;
p	Optical Connector	p=0: SC/UPC; p=1: SC/APC w/ Shutter; p=2: FC/PC; p=3: FC/APC;
q	Filter Type (in-line and pre-amp only)	q=0: w/o filter; q=1: with fixed filter; q=2: with tunable filter;
r	Filter Bandwidth	r=0: None; r=1: 100 GHz; r=2: 200 GHz; r=4: 400 GHz;
mm	ITU-T Channel # (with filter only)	mm=00: None; mm=21~60: channel allocation from 21 to 60;
nn	Rack Type	nn=19: 19”; nn=21: 21”; nn=23: 23”;

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