



HighPower EDFA for FTTH/FTTB

Model no. NTPL-EDCA819P



Application:

- ◆ AnalogCATVTransmission
- ◆ FTTHOpticalAccess
- ◆ OpticalDistribution
- ◆ FreeSpaceOptical
- ◆ R&DandTraining

Feature

- ◆ HighPower: Upto2Wtotal, 1Unitfor2000~4000opticalnode
- ◆ LowNoiseFigure: Below5.5dB(+5dBminput)
- ◆ LowCSO:<-70dBc
- ◆ Controllabilityandmaneuverability:DualCPUtoidealControlloopand Communication separately
- ◆ HighStabilityAndReliability: MTTF> 150000Hours
- ◆ RedundancyHotSwappowermodule:110/220VACand48VDCcanplugMix
- ◆ PerfectNetworkInterface: Ethernet,RS-485andRS-232port
- ◆ IntelligentTemperatureControlSystem:usingadedicatedTemperaturecontrol chip which make cooling and power loss reduce 30% than competitors

- ◆ Output Power can be Adjustable by network and manual
- ◆ Integrated 1310nm, 1550nm WDM(Optional)
- ◆ OEM, Module is available

Description:

These products are widely used in CATV transmission system and the high power distributing system FTTH requirement. It can be used for CATV analog/digital signal distribution.

Employ intelligent temperature control system: (1) Adopt special temperature control circuit, heat radiating and power consumption can be reduced 30%, (2) The professional air flow design can also ensure the best temperature stability, at the same time powerful fan will start when the case temperature is over 45°C, meanwhile it will stop as the temperature is under 40°C. The technology makes sure the thermal stability of system and fan's long life.

Optical characteristics

Parameter	Symbol	MIN	TYP	MAX	UNITS
Operating Wavelength	λ_c	1540	1550	1565	nm
Saturated Output Power <i>Note1</i>	Po	13	-----	33	dBm
Input Power	Pi	0	-----	+10	dBm
Gain	G	-----	-----	30	dB
Noise Figure <i>Note2</i>	NF	-----	-----	6	dB
Output Power Stability	ΔP_o	-----	± 0.05	± 0.2	dB
Input Isolator	ISOi	30	-----	-----	dB
Output Isolator	ISOo	30	-----	-----	dB
Input Pump Leakage	PLi	-----	-----	-35	dBm
Output Pump Leakage	PLo	-----	-----	-45	dBm
Return Loss	RL	-----	-----	-45	dB
Polarization Dependent Gain	PDG	-----	-----	0.3	dB
Polarization Mode Dispersion	PMD	-----	-----	0.5	ps

Note1: Optional

Note2: Tested at +5dBm Input

Environmental characteristics

Parameter	Symbol	MIN	TYP	MAX	UNITS
Operating Temperature	Tw	-5	----	60	°C
Storage Temperature	Ts	-40	----	80	°C
Humidity Note	-----	10	-----	90	%

Note: No Condensate

Electrical Characteristics

Parameter	Symbol	MIN	TYP	MAX	UNITS
Power Supply (1)	Vps	170		264	VAC
Power consumption	P	----	----	50	W

(1) :110VAC , 220VACand-48VDCisoptional,andduplicatesupplyisoptional.