



PA-1550S 1550nm Erbium Doped Fiber Amplifier (Standard)

Content

Product overview

PA-1550S series 1550nm Erbium Doped Fiber Amplifier (standard) adopts 980nm or 1480nm high linearity, optical isolation, the DFB, thermoelectric cooling DFB laser produced by JDS-U, Fujitsu, Nortel, Lucent, Fitel and other world-renowned semiconductor companies as the pumping source. In the interior of the machine is equipped with the output optical power stability circuit and laser thermoelectric cooling device, temperature stability control circuit to ensure optimal machine performance and long-life laser stability. The microprocessor software monitor the laser's working state, the VFD screen displays the operating parameters. Once the laser operating parameters deviate from the permissible range set by the software, micro-processing will automatically turn off laser power, red light goes on to warn, digital panel prompts cause of troubles

Features

- 1) High quality: The former-class pump commonly uses 980nm, after-class pump use 1480nm, power is legitimately optimized by software to minimize the NF of the EDFA, could be comparable with the so-called low-power optical amplifier. It can make the system to obtain superior CNR.
- 2) Reliability: The 19"1U standard rack, built-in high-performance switching power supply, it can work at 85~265Vac City Network Voltage, As well as an optional DC48V power supply (reservations required); Chassis cooling automatic temperature control. Mechanical cooler (heat sink) on one side of the chassis helps to make heat dispersion thus to protect the pump laser
- 3) Intuitive: The laser is the most expensive machine components, machine equipped with microprocessor monitors the working state of the laser, and the panel LCD window displays the operating parameters.
- 4) Network type: Select all piece status monitoring transponder guarantee to meet the national standard and be compatible with the SCTE HMS standard, it enable network management monitoring capabilities.

Technical specification

Items	unit	Specification
Operating wavelength range	nm	1540~1560
Optical input power	dBm	-10~+10
Nominal optical input power	dBm	+3
Working pump quantity		1~3
Saturated output power	dBm	13~27
Number of output ports	port	1~8 (customer specify)
Noise Figure (NF)	dB	<5.0 (+0 dBm input @1550nm)
Optical output power stability	dB	<±0.5
Polarization Sensitivity	dB	<0.2
Polarization dependence gain	dB	<0.5
Polarization mode dispersion	ps	<0.5
Optical connector (IN/OUT)		SC/APC or FC/APC or customer specify
SNMP network management interface (optional)		RJ45
Power supply	VAC	115~265VAC or -48 VDC
Power consumption	W	50
Working temperature	°C	-5~65
Storage temperature	°C	-40~80
Operating relative humidity	%	5~95
size	"	19×14.5×1.75 (1U,19")

Product series

Model	1550nm Erbium Doped Fiber Amplifier (Standard) Output power @ +3dBm input
PA-1550S-13	Saturated output power≥13dBm (20mW)
PA-1550S-14	Saturated output power≥14dBm(25mW)
PA-1550S-15	Saturated output power≥15dBm(32mW)
PA-1550S-16	Saturated output power≥16dBm(40mW)
PA-1550S-17	Saturated output power≥17dBm(50mW)
PA-1550S-18	Saturated output power≥18dBm(63mW)
PA-1550S-19	Saturated output power≥19dBm(80mW)
PA-1550S-20	Saturated output power≥20dBm(100mW)
PA-1550S-21	Saturated output power≥21dBm(125mW)
PA-1550S-22	Saturated output power≥22dBm(160mW)
PA-1550S-23	Saturated output power≥23dBm(200mW)
PA-1550S-24	Saturated output power≥24dBm(250mW)
PA-1550S-25	Saturated output power≥25dBm(320mW)
PA-1550S-26	Saturated output power≥26dBm(400mW)
PA-1550S-27	Saturated output power≥27dBm(500mW)