

OptoStar 64667C 1550 nm Erbium Doped Fiber Amplifier

The OptoStar 64667C 1550 nm Erbium Doped Fiber Amplifier (EDFA) is designed for multiplex distribution configuration and long distance relay transmission network configuration in conjunction with the 1550 nm optical transmitter.

The OptoStar 64667C 1550 nm EDFA is microprocessor controlled to real time monitor and control the operating status, such as pump current, optical input and output power. When the amplifier fails to work, the warning information can be displayed by the EDFA. The pump laser will be automatically switched off if serious failure was detected to protect the amplifier, or the EDFA has no optical input signal. Consistency and reliability is attained through automatic control of pump laser.

Figure 1. 64667C 1550 nm EDFA



Features

- Flexible selection of various optical output powers.
- High gain, great power, low noise and low local radiation.
- Non-polarized optical isolator at both optical input and output.
- Single-stage or double-stage 980 nm and 1480 nm pump laser with very low power dissipation.
- Very low optical noise figure.
- Optical input and output with high-quality optical isolator to be free from polarization.
- Controlled by microprocessor, and LCD display on the front panel with user-friendly interface.
- Support switching function of the pump, for easy onsite maintenance.
- Support ROSA® Element Management System via RS-232 port for local monitoring and control.
- Support ROSA Network Management System with SNMP via RJ-45 port for remote monitoring and control.

Product Specifications

Specification	Value
Optical	
Wavelength	1540 to 1560 nm
Input Power	-3 to +10 dBm
Output Power, single optical output port	14 to 24 dBm, 1 dB step
Output Power, 2 optical output ports	16 dBm
Output Power, 4 optical output ports	16 dBm
Connector Type	FC/APC, SC/APC
Pump Output Leakage at input and output	≤ -30 dBm
Optical Return Loss at input and output	≥ 50 dB
Polarization Gain	≤ 0.5 dB
Electrical	
Noise Figure	≤ 5.0 dB @ 0 dBm optical input
Input and Output Isolation	≥ 30 dB
Mechanical	
Dimensions (H x W x D)	44 x 483 x 320 mm 1.7 x 19.0 x 12.6 in.
Environmental	
Operating Temperature	- 5 to +50°C +23 to +122°F
Storage Temperature	- 40 to + 85°C - 40 to +185°F
Relative Humidity	5 to 95%
Power Supply	100 to 240 VAC, 50/60 Hz
Power Consumption	≤ 25 W
Element Management	
Element Management System	ROSA EM
Network Management Systems with SNMP	ROSA NMS
Communication Interface	DB9-M x 1 RJ-45 x 1
Safety/Compliance	
Electrical Safety	IEC/EN 60065:2002+A1:2006
Laser Safety	IEC/EN60825-1
EMC	EN 55022/2006+A1/2007 EN 55024/1998+A1/2001+A2/2003 EN 61000-6-3/2001 EN 61000-3-2/2006 EN 61000-3-3/1995+A1/2001+A2/2005
RoHS	5/6, RoHS Directive

Ordering Information

Available based on the output power:

Description	Part Number
OptoStar 64667C 1550 nm 14 dBm EDFA, SC/APC	3791011210
OptoStar 64667C 1550 nm 14 dBm EDFA, FC/APC	3791011110
OptoStar 64667C 1550 nm 15 dBm EDFA, SC/APC	3791012210
OptoStar 64667C 1550 nm 15 dBm EDFA, FC/APC	3791012110
OptoStar 64667C 1550 nm 16 dBm EDFA, SC/APC	3791013210
OptoStar 64667C 1550 nm 16 dBm EDFA, FC/APC	3791013110
OptoStar 64667C 1550 nm 17 dBm EDFA, SC/APC	3791014210
OptoStar 64667C 1550 nm 17 dBm EDFA, FC/APC	3791014110
OptoStar 64667C 1550 nm 18 dBm EDFA, SC/APC	3791015210
OptoStar 64667C 1550 nm 18 dBm EDFA, FC/APC	3791015110
OptoStar 64667C 1550 nm 19 dBm EDFA, SC/APC	3791016210
OptoStar 64667C 1550 nm 19 dBm EDFA, FC/APC	3791016110
OptoStar 64667C 1550 nm 20 dBm EDFA, SC/APC	3791017210
OptoStar 64667C 1550 nm 20 dBm EDFA, FC/APC	3791017110
OptoStar 64667C 1550 nm 21 dBm EDFA, SC/APC	3791018210
OptoStar 64667C 1550 nm 21 dBm EDFA, FC/APC	3791018110
OptoStar 64667C 1550 nm 22 dBm EDFA, SC/APC	3791019210
OptoStar 64667C 1550 nm 22 dBm EDFA, FC/APC	3791019110
OptoStar 64667C 1550 nm 23 dBm EDFA, SC/APC	3791020210
OptoStar 64667C 1550 nm 23 dBm EDFA, FC/APC	3791020110
OptoStar 64667C 1550 nm 24 dBm EDFA, SC/APC	3791021210
OptoStar 64667C 1550 nm 24 dBm EDFA, FC/APC	3791021110
OptoStar 64667C 1550 nm 16 dBm EDFA with 2 ports, SC/APC	3791016212
OptoStar 64667C 1550 nm 16 dBm EDFA with 4 ports, SC/APC	3791019214



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Cisco Systems, Inc.
1-800-722-2009 or 678-277-1120
www.scientificatlanta.com

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