

EDFA Module For Digital System

Description

EDFA module for digital telecommunication system contain a Booster amplifier and a preamplifier. Compact and high reliable, with low noise and output power clamped, the module can be conveniently used in digital communication systems. Their design and manufacturing is compliant with Bellcore GR-1312-CORE requirements.

Optical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit
Operating Wavelength	λ	1530	-	1560	nm
Input Power	P_{in}	-30	-	-	dBm
Gain	G	-	-	35	dB
Output Power	P_{out}	-	-	17	dBm
Noise Figure	NF	-	4.8	-	dB
Pump Leakage	-	-	-	-30	dBm
Isolation (Input/Output)	-	30	-	-	dB
Return Loss (Input/Output)	ORL	40	-	-	dB
Polarization Dependent Gain	PDG	-	-	0.5	dB
Polarization Mode Dispersion	PMD	-	-	0.5	ps

Electrical Characteristics

Parameter	Min	Typ	Max	Unit
Operating Pump Forward Current	-	-	350	mA
Operating Pump Forward Voltage	-	-	2.5	V
Monitor Detector Responsivity	-	-	25	$\mu A/mW$
Monitor Dark Current	-	-	50	nA
Power Consumption	-	-	3	W
Electrical Interface	Pin16			-

Absolute Maximum Ratings

Parameter	Min	Max	Unit
Operating Temperature	-5	60	$^{\circ}C$
Storage Temperature	-25	85	$^{\circ}C$
Operating Humidity	0	90%	-



Features

- Single channel
- High output power or high gain
- Low noise figure
- Flexible monitoring interface
- Microprocessor-based
- Alarm & control small size, easily installation

Applications

- Long haul telecommunication systems
- LANs and WANs system
- Multimedia communication system

