



DATASHEET

Mid-stage EDFA for DWDM Networks

OTN Solutions for Metro, Regional & Long Haul

Description

The product is multi-channel EDFA of support dispersion compensation modules insertion, high flattening and high stable output. The product can amplify of before and after by double-pumped, offset the insertion loss dispersion compensation module and has the better transmission performance index than unipolar amplification of high gain. The kernel component of the product is high availability pump laser and high-performance gain flattening filters.

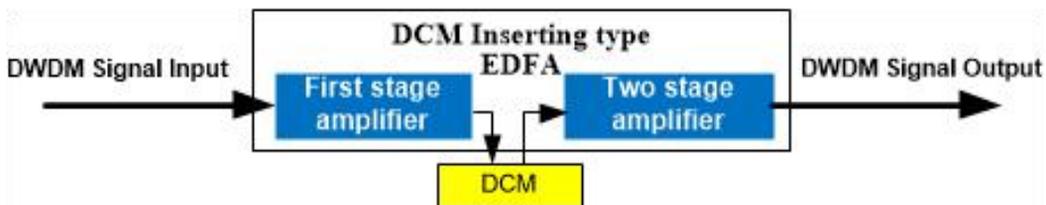
The product has high stable output, high gain flatness and high reliability by using unique APC (automatic power control) and ATC (automatic temperature control). The system' s flatness and noise can achieve the best optimization by the gain flattening filters of professional design. The system is convenient to regulation and display, reliable, intelligent by using high stable and high precision MPU.

Features

- Low-noise high flatness design
- Pluggable Dispersion Compensation 20~100km
- Adjustable output power
- High precision ATC keep system stable operation
- Precision AGC / APC circuit keeps the output power stability
- Card design highly integrated, space-saving cabinet
- Expansion is very convenient
- Strict accordance with Bellcore GR-1312-CORE requirement for design

Applications

- C-band 40/80CH DWDM
- Other optical systems



Note: The Mid-stage EDFA is equivalent to two EDFAs, and add a DCM in the middle, which just like the connection in the frame: EDFA--->DCM--->EDFA, The Mid-stage EDFA is generally used for lines with strict power requirements.

Optical Characteristics

Parameters	Symb	Min	Typ	Max
Operating Wavelength(nm)	λ_c	1528	--	1564
Saturate Output Power(dBm)	P_o	--	--	20
Input Power(dBm)	P_i	-35	--	6
Gain(dB)※	G	--	20	33
DCM IL(dB)	IL	3	--	13
Noise Figure(dB)	NF	--	4.5	6
Power/Gain Stability(dB)	ΔP_o	--	± 0.05	± 0.2
Input Isolation(dB)	ISO _i	30	--	--
Output Isolation(dB)	ISO _o	30	--	--
Flatness(dB)	GF	--	1	--
Return loss(dB)	RL	--	--	-45
PDG(dB)	PDG	--	--	0.3
PMD(dB)	PMD	--	--	0.5
Consumption(W)	P	--	--	15

※Does not include DCM insertion loss.

Laser Class Information Security

- III b level laser products
- With single-mode fiber pigtail connectors
- Wavelength: 0.96~1.68 μ m
- Maximum power: <400mW
- Products cannot be transported in a charged state
- Note: this instruction outside of any control, regulation and treatment may result in hazardous radiation exposure



Order Information

Operation Mode	AGC
Input Power	--18dBm~+2dBm
Saturated Output Power	16dBm, 17dBm
Gain	26dBm, 17dBm
Connector	LC/SC/FC/ST,UPC/APC
Power 1	100V-240VAC 36V-72VDC
Power 2	100V-240VAC 36V-72VDC None

*Customized specifications are available upon request.



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