DWDM Erbium Doped Fiber Amplifier

OTN Solutions for Metro, Regional & Long Haul

Description

The multi-channel erbium doped fiber amplifier(EDFA) features stable output power, low noise and power consumption. The kernel components of the product are high-availability pump laser and high-performance gain flattening filters.

Both input and output signals are sampled and monitored with a feedback circuit. AGC (Automatic Gain Control) circuit is designed into the amplifier to ensure high output power stability and reliability.

Features

- Prevent the eyes from highlight
- Support single and dual fiber operation
- Highly integrated with FMT management platform
- Support up to 48ch DWDM wavelengths in the C-band
- Support AGC (Automatic Gain-Control) operation modes
- Front panel blue display, show various main work status parameters
- Online status LEDs and LCD for monitoring and alarm on the EDFA input and output

Application

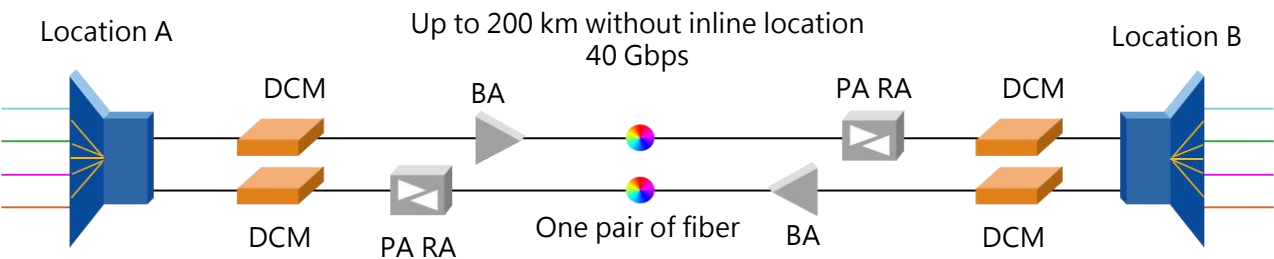- C-band 40CH DWDM
- Other optical systems

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Product Specifications

Parameters	Symb	Min	Typ	Max
Operating Wavelengh (nm)(1)	λc	1528	--	1564
Saturate Output Power (dBm)	Po	--	--	22
Input Power (dBm)(2)	Pi	-30	--	+5
Gain (dB)	G	15	--	33
Noise Figure (dB)	NF	--	4.5	6
Power/Gain Stability (dB)	ΔPo	--	± 0.05	± 0.2
Input Isolation (dB)	ISOi	30	--	--
Output Isolation (dB)	ISOo	30	--	--
Flatness (dB)	GF	--	1	1.5
Return Loss (dB)	RL	--	--	45
PDG (dB)	PDG	--	--	0.3
PMD (ps)	PMD	--	--	0.3
Operation Temperature (℃)	--	-10	--	60
Storage Temperature (℃)	--	-20	--	75
Consumption (W)	P	--	--	20
Optical Connectors	LC/UPC			

Notes:
1.Operating wavelength range (1528~1564nm) can be customized.
2.The input power can be selected in -30~+12dB.

EDFA for DWDM Network up to 200 km

The DWDM EDFA is a low-noise, gain-flattened C-band optical erbium doped fiber amplifier (EDFA) designed to extend the distance in dense wavelength-division multiplexing (DWDM) optical infrastructure. It provides customers with the capability to extend their 100GHz, up to 40 channels, 2.5Gbps, or 10Gbps optical infrastructure over greater distances.

Dimensions

4-slot 1U managed chassis, supports up to 4x multiplexer/EDFA/OEO/OLP card with accessories;

- Width: 482.6mm (19")
- Height: 44.50mm (1.75")
- Depth: 300mm (11.81")

EDFA plug-in card occupies one or two slots.

Ordering Information (100 GHz ITU DWDM Grid)

ID	Type	Operation Wavelength	Housing	Connectors	Wavelength (nm)
#35925	Pre-Amplifier	1528nm~1564nm	Plug-in Card Type / 1U 19" Rack mount	LC/SC/FC/ST, UPC/APC	C-band
#35926	Booster Amplifier	1528nm~1564nm	Plug-in Card Type / 1U 19" Rack Mount	LC/SC/FC/ST, UPC/APC	C-band
#35924	In-Line Amplifier	1528nm~1564nm	Plug-in Card Type / 1U 19" Rack Mount	LC/SC/FC/ST, UPC/APC	C-band

*Standard products are listed above. Customized specifications are available upon request.

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