

# EDFA Amplifier C-Band

## 26dB Gain, 16dBm Output



DATASHEET

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### Features

- Flat Gain
- Stable Output
- Low Noise
- High Reliability

### Applications

- DWDM Network
- Optical Network

EDFA is an erbium-doped fiber amplifier. It is used to amplify the optical power up to 48 channels (channel interval of 100 GHz) or 96 channels (channel interval of 50 GHz) at the C band at the same time in the transmission link. It has characteristics of flat gain, stable output, low noise figure, etc. It is mostly used in DWDM high-speed and long-haul transmission.

These Erbium-Doped Fiber Amplifiers (EDFAs) are engineered for a long operational lifespan, typically designed to function reliably for over 10 years. This durability is achieved through high-quality components and robust manufacturing processes. The design considerations include thermal management, component selection, and rigorous testing to maximize the amplifier's longevity and efficiency.

### Specifications

Parameter	Min	Typical	Max	Unit
Working Mode	AGC			
Operating Wavelength	1528	1550	1564	nm
Output Power	13		23	dBm
Input Power	-30		12	dBm
Gain	17	20	30	dB
Noise Figure		4.5		dB
Flatness		1	1.5	dB
Power / Gain Stability		±0.05	±0.1	dB
Input Isolation	30			dB
Output Isolation	30			dB
Return Loss	45			dB
PDG		0.3	0.5	dB
PMD		0.3	0.5	dB
Power Consumption			10	W

**Note:** The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this link](#):

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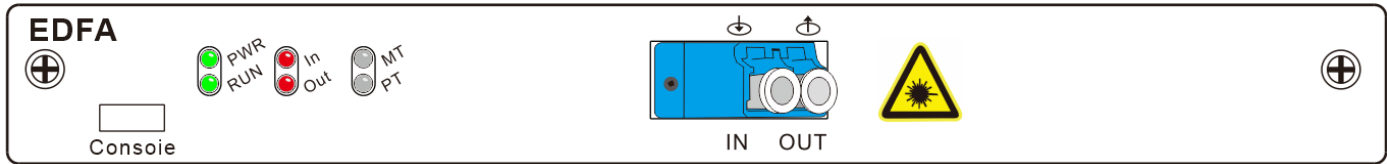
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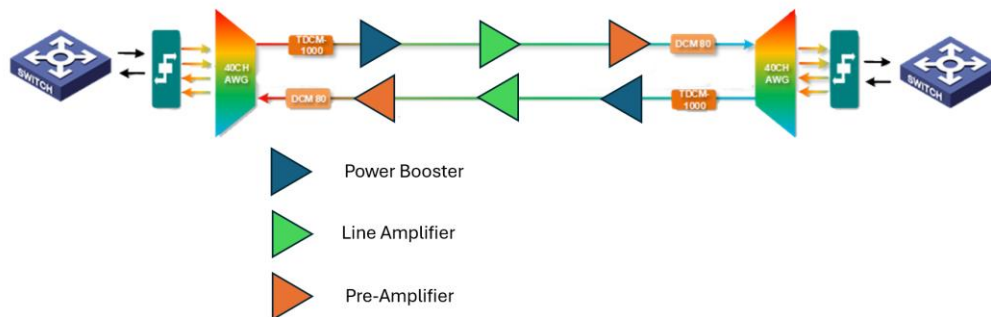
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### Layout



### EDFA Type and position in DWDM Network



1. Pre-Amplifier is designed to install at the receiver end of the DWDM network to amplify the optical signal to the required level to ensure that it can be detected by the receiver. PA usually has a high gain and requires low input power.
2. Booster Amplifier is designed to install in the transmitting end of the fiber optic network, which can amplifier amplify the optical signal launched into the fiber link. BA usually has a low gain but high output.
3. In-line amplifier is installed in the fiber optic link every 80-100km as shown in the picture above. LA has moderate gain and has similar output power to the booster amplifier.

### Ordering Information

Prefix	Configure	Type	Gain	Output Power	Connector
RMEA-	Pluggable = 1	Booster = 1 Pre-Amplifier = 2 Line Amplifier = 3 Special = 0	17dB = 17 20dB = 20 26dB = 26	17dBm = 17 20dBm = 20 26dBm = 26	LC/PC = 1 LC/APC = 2 FC/PC = 3 FC/APC = 4 Special = 0