EDFA (Erbium-doped fiber amplifier) series

The EDFA-E series of stand-alone devices with the user-friendly front panel and OEM units are designed for a wide range of applications. These wall-plug units include a wide selection of Boosters, Pre-amplifiers, In-Line, Mid-Stage access and Gain-Flattened amplifiers. The Rack- mount EDFA-E series of high performance, low noise and high output power amplifiers provide the perfect opportunity to build flexible CATV network systems.

These EDFA-Es are available in both single channel and DWDM configurations.

All EDFA-Es are available in Bench Top, 1U 19" Rack-mount, Gain Block or Module formats.

Features

- Wide range of power from 14 dBm to 25 dBm
- Choice of wavelengths C-, L- and C+L-bands
- Near quantum-limited noise figure preamplifiers
- RS232 or USB interface
- High performance-to-cost ratio
- Custom design flexibility

Applications

- Analog and Digital CATV Optical Network
- Long-Haul transmitting system
- LANs and MANs
- SONET/SDH systems
- Instrumentation
- R&D

Specification for C-band Amplifiers

Parameters	Unit	Booster amplifier	Pre-Amplifier	In-Line amplifier	Mid-access amplifier	Gain-Flattened amplifier
Output power [1]	dBm	14-25	14-17	14-22	14-23	14-23
Wavelength range	nm	1525–1565	1525-1565 1540-1565	1525-1565 1540-1565	1528-1565 1540-1565	1528-1563 1542-1561
Noise figure [2]	dB	<4.5	<3.2	<3.6	<4.5	
Small signal gain [3]	dB	Up to 38	Up to 40	Up to 44	12-33	14-31
PDL	dB	<0.2			<0.25	
PMD	ps	<0.2			<0.3	
Gain flatness	dB	N/A			1.0-1.5	
Operating temperature	C	0 to +55			0 to +50	
Storage temperature	C	-40 to +85				
Humidity	%	0 to 95 (Non-condensing)				

(1) Pin = -4 dBm for Booster, Pre-amplifier and In-Line amplifiers at 1550 nm.
(2) Pin = -4 dBm for Booster, Pin = -20 dBm for Pre-amplifier and In-Line amplifiers at 1550 nm.
(3) Pin = -20 dBm for Booster, Pin = -30dBm for Pre-amplifier and In-Line amplifiers at 1550 nm.

Specification for L-band Amplifiers

Parameters	Unit	Booster amplifier	Pre-Amplifier	In-Line amplifier	Mid-Access amplifier	Gain-Flattened amplifier
Output power [1]	dBm	14-24	14-17	14-21	14-21	14-22
Wavelength range	nm	1565–1610	1565-1610	1565-1610	1570-1603	1570-1603
Noise figure [2]	dB	<5.5	<5.0	<5.5	<5.8	<5.5
Small signal gain [3]	dB	Up to 28	Up to 24	Up to 25	12-27	14-24
PDL	dB	<0.2			<0.25	
PMD	ps	<0.35			<0.4	
Gain flatness	dB	N/A			1.1-1.7	
Operating temperature	C	0 to +55			0 to +50	
Storage temperature	C	-40 to +85				
Humidity	%	0 to 95 (Non-condensing)				

(1) Pin = -2 dBm for Booster, Pre-amplifier and In-Line amplifiers at 1590 nm.
(2) Pin = -2 dBm for Booster, Pin = -20 dBm for Pre-amplifier and In-Line amplifiers at 1590 nm.
(3) Pin = -20 dBm for Booster, Pin = -30dBm for Pre-amplifier and In-Line amplifiers at 1590 nm.

Specification for C+L-band Amplifiers

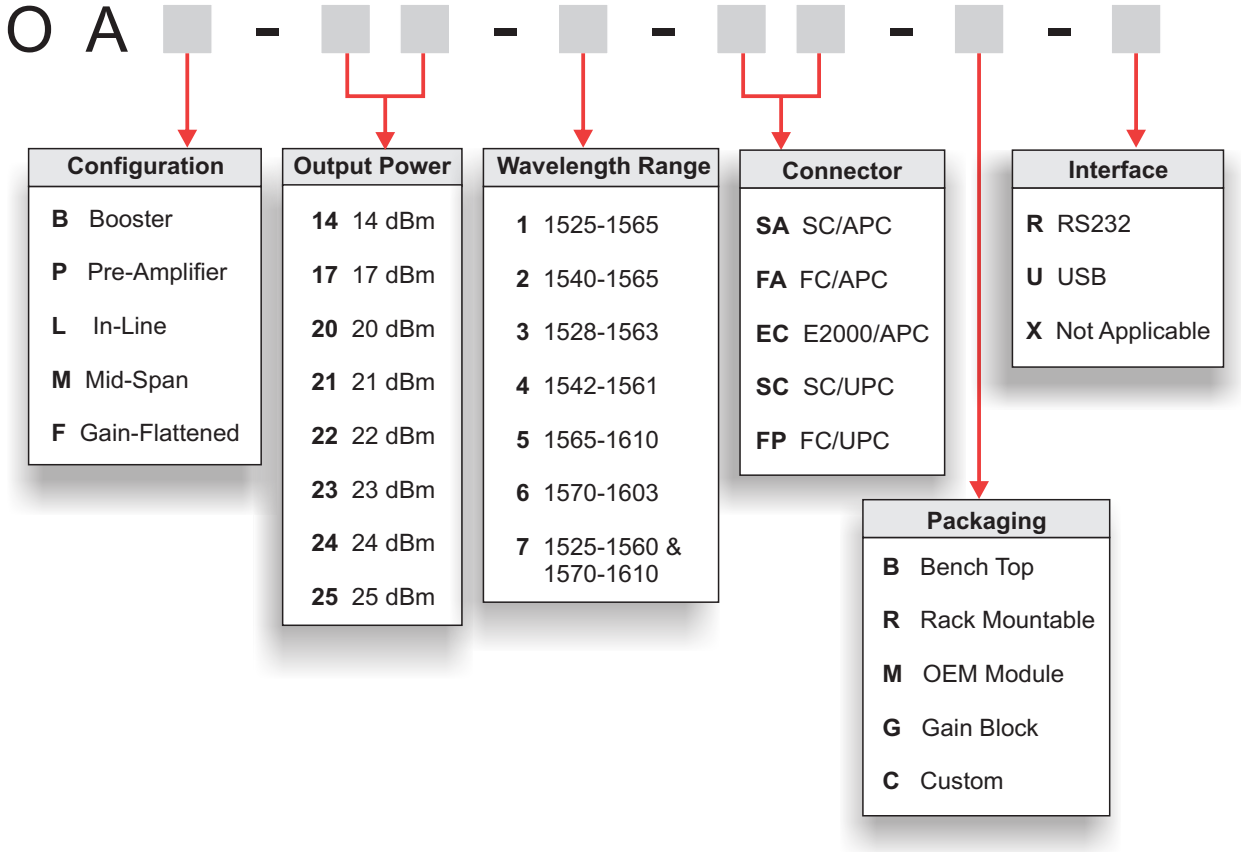
Parameters	Unit	Booster amplifier	In-Line amplifier
Output power [1]	dBm	20	14
Wavelength range	nm	1565–1610 & 1570-1610	1565-1610 & 1570-1610
Noise figure [2]	dB	<6.0	<6.0
Small signal gain [3]	dB	Up to 22	Up to 20
PDL	dB	<0.25	
PMD	ps	<0.35	
Operating temperature	C	0 to +55	
Storage temperature	C	-40 to +85	
Humidity	%	0 to 95 (Non-condensing)	

(1) Pin = -2 dBm at 1550nm and 1590 nm.
(2) Pin = -2 dBm for Booster, Pin = -20 dBm for In-Line amplifier at 1550nm and1590 nm.
(3) Pin = -20 dBm for Booster, Pin = -30dBm for In-Line amplifiers at 1550nm and 1590nm.

Ordering information

Indicate your requirements by selecting one option from each configuration table.
For more information on this or other products and their availability, please contact QGLex Inc.

Sample: OAB-21-1-SA-B-R



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