

Erbium-Ytterbium Doped Fiber Amplifiers

EYDFA Series

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PBC is pleased to introduce a new series of Erbium-Ytterbium Doped Fiber Amplifiers (EYDFAs), in response to the demands of the DWDM transmission market for very high power booster sources. The EYDFA series feature booster amplifiers with saturated output powers up to 1W, which cover 32 nm of the C-band from 1535 to 1567 with a gain flatness of ± 1 dB.



Optical Specifications

Parameter	Conditions		Unit
Operational Wavelength Range	32-nm bandwidth	1535 to 1567	nm
Channel Count	Nominal	40	-
Per-channel Input Power	Nominal	- 6	dBm
Composite Input Power	Nominal	+ 10	dBm
Saturated Output Power		30	dBm
Gain	Nominal	20	dB
Gain Flatness	Over operational wavelength range	± 1	dB
Noise Figure		≤ 6	dB
Polarization Dependent Gain		≤ 0.3	dB
Optical Input / Output Monitor Tap		2 / 2	%
Input/Output Isolation		> 32	dB
Input/Output Connectors	Standard configuration	FC-APC	-

Electrical Characteristics

Electrical Parameters	Minimum	Typical	Maximum
Operating Voltage (Vcc)	23 V	24.0 V	25 V
Power Consumption (Start of Life, room temperature)	-	35 W	40 W

General Characteristics

Storage Case Temperature Range	- 25° to +70° C
Operating Case Temperature Range	0° to 65° C
Dimensions:	250 mm (L) by 216 mm (W) by 63 mm (H).

Specifications subject to change without notice