

Erbium Doped Fiber Amplifier, C-band OEM Module

Model no.: EDFA-C-20 [23]



Description

The Erbium-Doped Fiber Amplifier (EDFA) is a general-purpose optical amplifier for the C-band. This single pump optical amplifier features over +20dBm of saturated optical output power, together with a high small-signal gain and low noise figure. This amplifier has internal input and output isolators and includes drive and control electronics.

The EDFA performance is optimized for 1525 to 1565nm signal operation.

Optical parameters (at 25°C)

Parameter	Specification	Unit
Operating wavelength band	1525 – 1565	nm
Saturated output power (+5dBm input)	> +20 *	dBm
Small-signal gain (-30dBm input)	> 25	dB
Noise Figure (+5dBm input)	< 7	dB
Input and Output Isolation	> 30	dB
Polarization dependent gain	< 0.2	dB

* +23dBm version available on request

Optical connections

Fiber type – input and output signal	SMF-28
Connector type – input and output signal	FC/APC

Electrical parameters (at 25°C)

Parameter	Specification	Unit
Power supply	5	V
Power consumption @ 25°C	<15	W
Start-up current surge	<1.2	A
Start-up current surge duration	<5	s

Environmental specifications

Parameter	Specification	Unit
Operating case temperature	5 - 55	C
Storage temperature	-5 - 75	C
Humidity	0 - 95, Non-condensing	%
Dimensions (WxDxH)	120 x 90 x 25	mm