

High Reliability - Low Power Consumption OEM Amplifiers

This High Reliability and Low Power Consumption Erbium doped fiber amplifier implements pump redundancy with very efficient optical and electrical designs.

This fiber amplifier is well adapted to WDM Submarine networks or systems requiring maintenance-free operation and low power budget.

STARLITE



FEATURES

- Saturated output power up to 19 dBm
- Low FIT (<500), pump redundancy
- Wide bandwidth (1530 to 1565 nm)
- Flatness <1.5 dB
- Low Noise Figure
- Wide operating temperature range (-20°C to +65°C)
- Various operating modes ACC, APC, APPC
- RS232 interface
- Compact OEM module

Keopsys expertise on efficient optical and electrical designs enables to propose low fit and low power consumption devices.

All products comply with IEC 60825-1 and FDA (21 CFR Subchapter J) laser safety standards.

Keopsys undertakes a continuous and intensive product development program to ensure that its products perform to the highest technical standards. As a result, the specifications in this document are subject to change without notice.



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KEOPSYS
KEY OPTICAL SYSTEMS

C-band Low FIT-Low Power Consumption WDM fiber amplifier OEM-Low FIT-Low Power Consumption series



Applications: WDM networks

product reference: KPS-STD-OEM-LFLPC-WDM-xx-yy-zz

Optical Specifications:

Parameters	Conditions	Unit	Value
Mode of operation			CW
Nominal output power	Pin = -6dBm	dBm	19
Input power		dBm	From -45 to 0
Bandwidth		nm	1530-1565
Noise figure	Pin=-10dBm	dB	max: 4.5
Gain Flatness	Pin=-15dBm	dB	< 1.5
Input monitoring			No
Output monitoring			Yes
Control Mode			ACC, APC, APPC*
APC Pw. Tunability		%	30-100
APC Pw. Stability	8h, 25°C	% rms	max: 1
FIT Rate			<500

* APPC : Automatic Pump Power Control

Optical Interface:

Parameters	Description
Output termination options	FC/APC, SC/APC, FC/SPC, SC/SPC
Output pigtail	SMF28, 900 μm, PVC, 0.75 m
Input termination options	FC/APC, SC/APC, FC/SPC, FC/SPC
Input pigtail	SMF28, 900 μm, PVC, 0.75 m

Electrical, Environmental and Packaging:

	Parameters	Unit	Value
Electrical Specification:	DC Voltage	V	5
	Power Consumption	W	<4.5
	Interface		RS232
Environmental	Operating Temperature	°C	From -20 to 65
	Storage Temperature	°C	From -40 to 85
	Warm up time	min	10
Dimension and Weight	Dimensions Laser module	mm	150x120x18
	Weight	kg	<0.5

- xx = Output power
- yy = Input termination
- zz = Output termination

Connectors:

FA=FC/APC; SA=SC/APC; FP=FC/SPC; SP=SC/SPC

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