

ARTISAN®
TECHNOLOGY GROUP

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L-BAND
FIBER AMPLIFIERS

The KPS-L-band series fiber amplifiers are designed to operate in the long wavelength region extending from 1565 up to 1610 nm. Thanks to our cutting edge *VSP*® technology (V-groove Side Pumping), up to 30dBm saturation output powers are available for the standard products.

These microprocessor controlled benchtop versions manage alarms and status indicators, maintain constant pump current or output power. Integrated GPIB interface enables easy control, diagnostic and data acquisition.

Applications

- L band transmission data
- Power booster for tunable laser sources
- Telcordia components testing



Models

- L-HPFA, High Power Fiber Amplifier, Preamplifier-booster, 21 up to 30dBm
- L-SFA, Standard Fiber Amplifier, 13 up to 18dBm

L-HPFA series
High Power Preamplifier-Booster

The High Power Amplifiers design and pump wavelength combinations have been optimized to obtain flat spectral gain (1.5dB typical variation) and low noise figure (6dB typical). Special care has been taken to keep the fiber length short in order to reduce PMD.
Our *VSP*® technology (V-groove Side Pumping) enables high efficiency and high saturation power up to 30dBm in a very compact and cost effective design.

Features

- High saturated output powers from 21 up to 30dBm
- Wide bandwidth 1565-1610nm
- Low noise figure
- Preamplifier built-in
- Input and output power monitoring photodiodes
- GPIB interface

Specifications

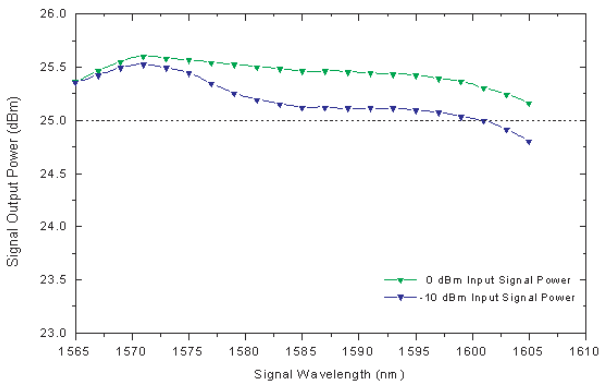
		KPS-BT-L-xx-PB				UNITS	NOTES
OPTICAL							
Output saturated power	Pout	>21	>25	>27	>30	dBm	Input -3 dBm
Noise figure	NF	<6	<6	<6.5	<7.5	dB	Input -10 dBm
Small signal gain	SSG	>30		>35	>40	dB	@1575nm Pin=-30 dBm
Optical bandwidth	BW	1565 to 1610				nm	

Ordering : KPS-BT-L-xx-PB-yy Output power xx = 21, 24, 27, 30 Connectors yy = FC: FC/PC, FA: FC/APC, SC: SC/PC, SS: SC/SPC

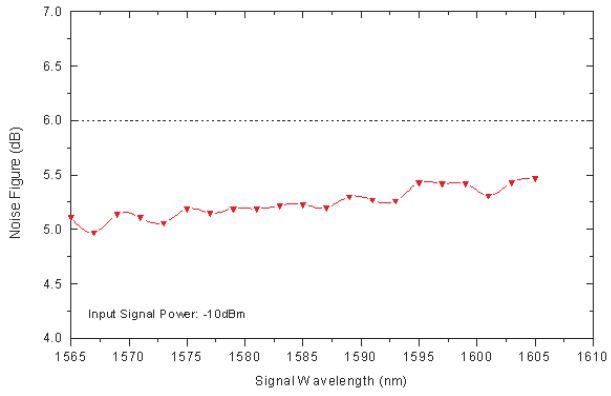
Nota : *the KPS-BT-L-30-PB is a preliminary product.*

KPS-BT-L-25-PB

Output Signal Power



Noise figure



L-SFA series
Standard Fiber Amplifier

The L-SFA series offer excellent performances for single channel applications. Based on conventional EDFA technology with single mode pumping at 980 and 1480nm, these fiber amplifiers achieve low noise and high gain.

Features

- Saturation output powers from 13 up to 18 dBm
- Low noise figure
- Input and output power monitoring photodiodes
- GPIB interface

Specifications

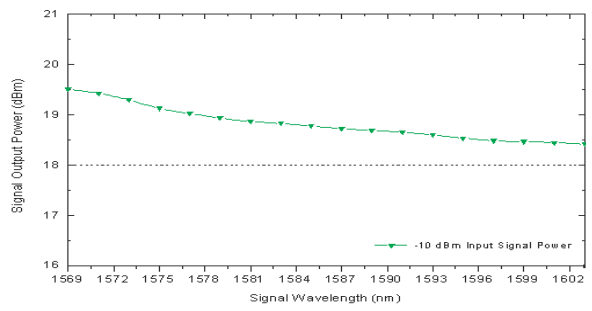
		KPS-BT-L-xx-Sd			UNITS	NOTES
OPTICAL						
Output saturated power	Pout	>13	>15	>18	dBm	Input -3 dBm
Noise figure	NF	<6	<6.5	<7	dBm	Input -10 dBm
Small signal gain		>25	>30		dBm	@1575nm Pin=-30 dBm
Optical bandwidth	BW	1569 to 1603			nm	

Ordering : KPS-BT-L-xx-Sd-yy Output power xx= 13, 15, 18

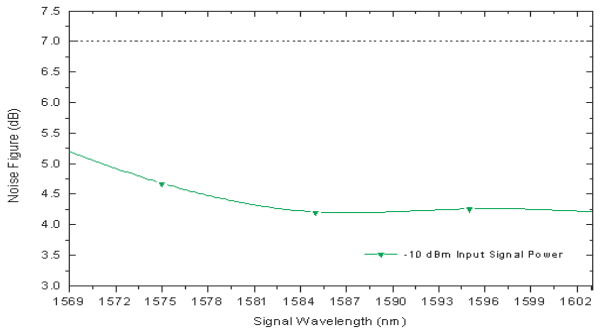
Connectors yy = FC: FC/PC
FA: FC/APC
SC: SC/PC
SS: SC/SPC

KPS-BT-L 18-Sd

Output Signal Power



Noise figure



General

MTBF	> 30 000	h	
AC voltage	85 - 264	V	47 to 63 Hz
Power consumption	<80	W	
Operating temperature	18 - 35°C		
Size	160X260X380	mm	

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