



High-Power Pre- Amplifier Series

XLT-HPPA 1 7 - 1 9 - 2 2



HPPA Series is EXELITE Innovations advanced series of amplifiers. These amplifiers are specially designed high power pre-amplifiers. They combine the functionality of a standard pre-amplifier and a Booster amplifier in a single cost-effective product. HPPA Series offers high output power, very low noise levels and very low input power levels (-30 dBm). HPPA series is ideal for R&D applications and product testing in optical transmission, C band telecommunications, optical switching and signal processing, and every demanding power and high attenuation application, including high sensitivity detection.

XLT-HPPA Series maintain very low noise output signal levels, due to special ASE management, with very high nominal gain, high saturated output power and input power levels as low as -30 dBm. Short fiber lengths in all stages allows for short pulse amplification. XLT-HPPA Series also comes with a user-friendly control interface that includes a monitor display, a supply on/off switch, a laser on/off key-switch, power control and fiber input/output monitor (optional).

XLT-HPPA Series Features	XLT-HPPA Series Applications
<ul style="list-style-type: none"> ■ Multi-Stage Design ■ Low Input Power ■ High Optical Gain ■ Low Noise Figure ■ Input/Output Isolation ■ ASE Management ■ Benchtop Package ■ Cost Effective Solution ■ Polarization Maintaining Option upon request 	<ul style="list-style-type: none"> ■ R&D Applications ■ Product Development ■ Product Testing & Evaluation ■ C Band Optical Transmission ■ Free Space Communications ■ Optical Switching & Signal Processing ■ High Sensitivity Detection ■ High Attenuation Applications

XLT-HPPA Series Technical Specifications

Model					
	XLT-HPPA-17	XLT-HPPA-19	XLT-HPPA-22		
Specification	Value			Units	Notes
Input wavelength range	1530-1565			nm	
Saturated Output Power	17	19	22	dBm	Pin = -23
Input Power	-30			dBm	
Small Signal Gain	43	> 43	> 45	dB	Pin = -30
Noise Figure (NF)	< 4	< 4	< 4	dB	Pin = -30 @1555 nm
Special ASE management option					
Input wavelength range	1535-1565			nm	
Noise Figure (NF)	< 3.5	< 3.5	< 3.5	dB	Pin = -30 @1555 nm
Environmental Conditions					
Operating Temperature	0 - 50			°C	
Storage Temperature	-40 to +85			°C	
Humidity	0 - 95 %				
Electrical & Mechanical Specifications					
Operating Voltage	85 - 264			VAC	@ 47-63 Hz
Power Consumption	< 25	<30	<40	W	
Dimensions	27 x 26 x 10			cm	
All information is accurate and subject to change without notice. No responsibility is assumed for their use.					

Ordering Information

Code	Value	Feature
xx	SM	Standard mode
	PM	Polarization Maintaining
yy	17	Output power 17 dBm
	19	Output power 19 dBm
	22	Output power 22 dBm
FCAPC	FCAPC	Fiber connectors FC/APC (other connectors available upon request)
zzz	0	Without ASE management option
	ASE	Including special ASE management option

Order Code:

XLT-HPPA-xx-yy-FCAPC-zzz

XLT-HPPA Series Additional Options

- Input Power Monitor
- Output Power Monitor
- Rack or Module
- Different Input/output Connectors

Contact Information

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LASER RADIATION
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CLASS 3B LASER PRODUCT
CLASS 4 LASER PRODUCT