Ultra-Low-Noise Optical Amplifier

LNA-220

- High-performance EDFA with 50dB gain
- Low-noise amplification of -50dBm signals
- Suitable for experiments with weak optical signals



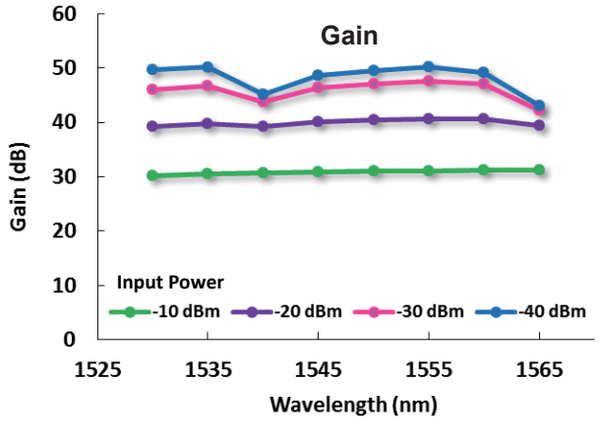
1550nm | -50dBm Input | 50dB Gain | NF ~ 3.8dB | Remote

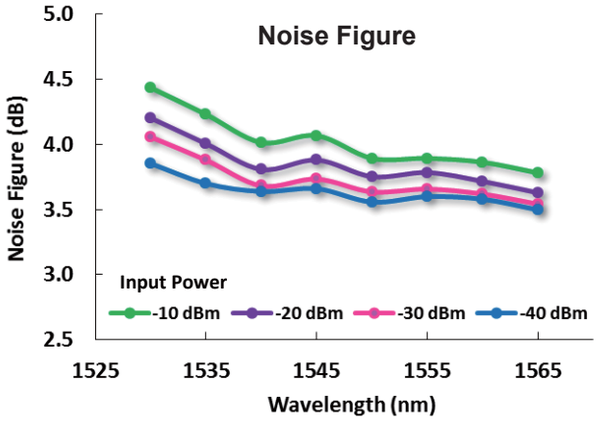
Specifications

		SMF			PMF			
		min.	typ.	max.	min.	typ.	max.	unit
Operating wavelength		1530		1560	1530		1560	nm
Saturation output power @ -10dBm input	35 dB type	+10			+10			dBm
	40 dB type	+16			+16			dBm
Input power range[1]		-40		-10	-40		-10	dBm
@1532 nm, C-band only		-50		-10	-50		-10	
Gain @ -40 dBm input	35 dB type	32	35		32	35		dB
	40 dB type	40	42		40	42		dB
@ 1532 nm, C-band only	35 dB type	43	45		38	40		dB
	40 dB type	50	52		50	52		dB
Noise figure @ -40 dBm input			3.8	4.0		3.2	3.5	dB
Input / output isolation			30			30		dB
Polarization dependent gain (PDG)			0.3	0.5		-		dB
Polarization mode dispersion (PMD)			0.3	0.5		-		ps
Polarization extinction ratio (PER)			-		20	22		dB
Optical fiber			SMF-28e			Fujikura SM15-PS-U25		
Optical connector			FC or SC, SPC or APC					
Power supply			AC 100-240 (50 / 60 Hz)					V
Dimension (W x H x D)			449 x 88 x 380					mm
Weight			6					kg

1. Input power where output optical SNR is >3dB. Out-of-band ASE noise may be filtered out using Alnair WTF-200 or BVF-300 series optical filter.
For use with CW input only. Please inquire for pulse-compatible EDFAs. The above specifications may change without prior notice.

Typical Performance (SMF, 40dB Gain type)





Ordering Information

LNA - 220□ - □□ - □□ - □□

Wavelength	Gain Type	Fiber Type	Connector Type
C : C-band	35 : 35dB	SM : SMF	FS : FC/SPC
L : L-band	40 : 40dB	PM : PMF	FA : FC/APC
CL : CL-band			SS : SC/SPC
			SA : SC/APC



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