



862MHz



Description:

Optical amplifier with double conversion. Input optical signal is converted to RF, processed accordingly to stabilize the level and then converted back to optical at same or different wavelength by means of FP, DFB or CWDM laser diode.

The difference between output and input optical power determines the amplification coefficient which could vary in accordance to selected option as well as the kind of modulating signal (analog, digital or combination of the two).

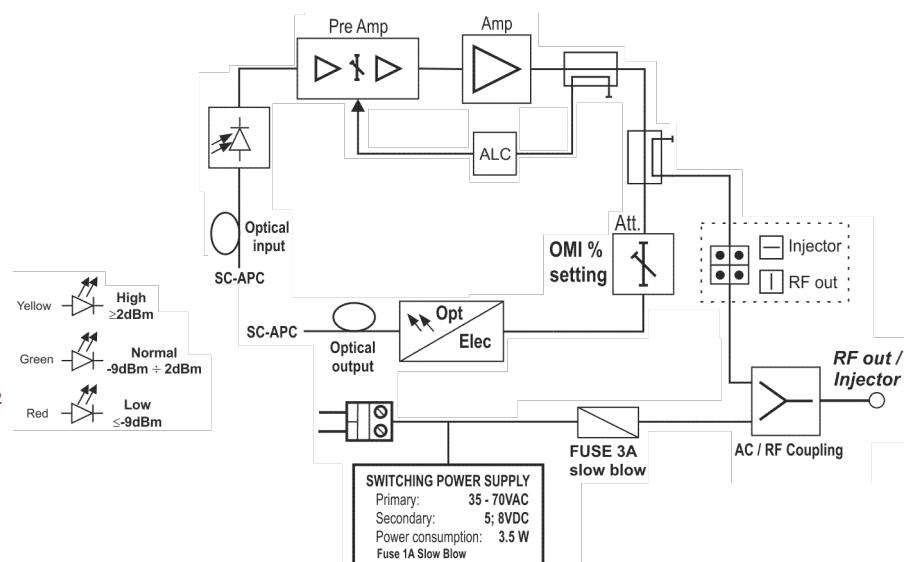
Features:

- Gain: 9 ÷ 21dB
- Independent input and output wavelengths
- Automatic Level Control (ALC)
- OMI adjustment
- Universal RF port (Injector or RF Output)
- Compact Hermetic Housing

Optical Section	
Input Optical Converter	
Wavelength	1290 ± 1600nm
Fiber	SM 9/125µm
Return Loss	> 40dB
Connector	SC/APC
Minimum Optical Power	-3/-6/-9 or -12dBm
Equivalent noise at input	≤ 8pA / √Hz
Output Optical Converter	
Output Optical Power	+6dBm ÷ +9dBm
Wavelength	- DFB 1310 ± 20nm - DFB 1550 ± 20nm - CWDM 1270 ÷ 1610, 20nm step
Connector	SC/APC

RF Section	
Frequency Range	
Frequency Range	47 ÷ 862MHz
Flatness	± 0.75dB
Universal Test/Injector port	-15dB, 5/8 inch
Return Loss	18dB @ Z=75Ω
Optical Gain	
Equivalent Optical Gain: - min @ optical input power -3dBm - min @ optical input power -12dBm	9dB 21dB
Analog test port	1V/mW
Output optical power test port	1V/mW

General Specifications	
Power Supply Mains	175 ÷ 265VAC
Power Supply Coaxial	35 ÷ 75VAC
Low voltage lockout	30VAC
Delay start (manual)	2.5; 3.5; 5; 6s
Power Consumption	≤ 3.5W
Operating Temperature	-20 ÷ +50°C
Protection Level	IP65
Dimensions	165x145x100mm
Weight	1.3kg



Configuration Table

Main	Supply Voltage	Min optical power	Wavelength	CWDM <small>see notes</small>	Output Optical Power
OPR-12F	Coaxial (C): 35 ÷ 70VAC	3: -3dBm	31: 1310	N: No CWDM	6: 6dBm (4mW)
		6: -6dBm	49: 1490		
	Mains (M): 175 ÷ 265VAC	9: -9dBm	51: 1510	Y: CWDM	9: 9dBm (8mW) <small>see notes</small>
		12: -12dBm	55: 1550		