

Lightem LA51 series- Booster EDFA for CATV application

Lightem LA51 Booster EDFA is working in single wavelength in CATV system. Features low noise figure, large saturation output power, Lightem LA51 CATV Booster EDFA can be applicable in the group center, substation and trunk circuit.

Lightem LA51 adopts the premium grade pump laser and America OFS erbium-doped optical fiber. The pump laser is well protected with the complete control of APC, ACC and ATC circuitry; together with ventilation and heat control the pump laser is running in a control environment. The RS232 and RJ45 port offer serial communication and SNMP network port. The work status of equipment is shown on the LCD display, with warning signal; Optical loss, laser operating status etc. All the parameters can be set via the LCD display, or can be set with RS232 or SNMP.



FEATURES

- Low noise figure
- High output power
- Power adjustment via the button on front panel (optional)
- RS232 commutation and SNMP network management optional
- Excellent P/P ratio
- Available of 19" rugged housing

APPLICATION

- AM CATV
- Digital CATV System
- DBS and MMDS
- FTTP

SPECIFICATIONS

Optic Features	Min	Typ	Max	Supplement
Operating wavelength range	1540 nm		1563 nm	CATV
Input power	-10 dBm		+7.5 dBm	
Maximum output power	+10 dBm		+26 dBm	Pin=0dBm
Output power adjustable range	-6 dBm		0	LA5100/P
Number of output ports	1		8	SC/APC
	1		6	LC/APC
Difference of each output power	-0.5 dBm		+0.5 dBm	
Noise figure (Pin=0dBm)			6.3 dB	LA5126
Polarization dependence loss			0.3 dB	
Polarization dependence gain			0.4 dB	
Polarization mode dispersion			0.5 ps	
Input/output isolation	30 dB			
Pump power leakage			-30 dBm	
Echo loss	55 dB			APC

General Features			
SNMP network management interface	RJ45		
Communication interface	RS232		
Power supply	90 V	265 V	220VAC
	30 V	72 V	-48VDC
	23 V	50 V	+24VDC
Power consume	50 W		
Work temp.	-5 °C	65 °C	
Storage temp.	-40 °C	80 °C	
Operating relative humidity	5	95%	
Size (W)×(D)×(H)	483×368×44 (mm)		1RU (19")
	315×391×133 (mm)		3D (12.4", desk-type)
	399×244×165 (mm)		Outdoor

ORDERING INFORMATION

Model	Output power Max (dBm)	Noise figure (dB)	Input power range (dBm)			Function
	Pin=0dBm	Pin=0dBm	Min	Typ	Mx	
LA5113/ON	≥13	4.0	-10	0	+10	With SNMP network management, output power is not adjustable
LA5114/ON	≥14	4.1				
LA5115/ON	≥15	4.2				
LA5116/ON	≥16	4.3				
LA5117/ON	≥17	4.5				
LA5118/ON	≥18	4.8				
LA5119/ON	≥19	5.0				
LA5120/ON	≥20	5.3				
LA5121/ON	≥21	5.5				
LA5122/ON	≥22	5.8				
LA5123/ON	≥23	6.0				
LA5124/ON	≥24	6.3				
LA5125/ON	≥25	6.5				
LA5126/ON	≥26	6.8				
LA5120/PN	≥20	5.3	-10	0	+10	With SNMP network management, the output optical power adjustable 0~ -6dB
LA5121/PN	≥21	5.5				
LA5122/PN	≥22	5.8				
LA5123/PN	≥23	6.0				
LA5124/PN	≥24	6.3				
LA5125/PN	≥25	6.5				
LA5126/PN	≥26	6.8				