Lightem LA52 series- Inline EDFA for CATV application

Lightem LA52 Inline EDFA is working in single wavelength in CATV system. Features low noise figure, large saturation output power, Lightem LA52 CATV inline EDFA can be applicable in the group center, substation and trunk circuit.

Lightem LA52 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

- Extra low noise index
- High output power
- Power adjustment via the button
- on front panel (optional)
- RS232 commutation and
- SNMP network management optional
- Excellent P/P ratio

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	-15 dBm		+11 dBm	
Maximum output power1)	+10 dBm		+26 dBm	Pin=0dBm
Output power adjustable range	-6 dBm		0	LA5100/P
Number of output ports	1		8	SC/APC
	1		16	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

CATV RF SYSTEM

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) Pin=0dBm	Noise figure (dB) Pin=0dBm	Min	Typ	Mx	Function
LA5213/ON	≥13	4.0	-15	0	+10	With SNMP network management,
LA5214/ON	≥14	4.1				output power is not adjustable
LA5215/ON	≥15	4.2				
LA5216/ON	≥16	4.3				
LA5217/ON	≥17	4.5				
LA5218/ON	≥18	4.8				
LA5219/ON	≥19	5.0				
LA5220/ON	≥20	5.3				
LA5221/ON	≥21	5.5				
LA5222/ON	≥22	5.8				
LA5223/ON	≥23	6.0				
LA5224/ON	≥24	6.3				
LA5225/ON	≥25	6.5				
LA5226/ON	≥26	6.8				
LA5220/PN	≥20	5.3	-15	0	+10	With SNMP network management,
LA5221/PN	≥21	5.5				the output optical power adjustable
LA5222/PN	≥22	5.8				0~ -6dB
LA5223/PN	≥23	6.0				
LA5224/PN	≥24	6.3				
LA5225/PN	≥25	6.5				
LA5226/PN	≥26	6.8				