

## Lightem LA53 series - CATV PreAmp EDFA

Lightem LA53 CATV PreAmp EDFA, optimised design of low noise and high gain. With the completely control of APC, ACC and ATC, perfect design in the ventilation and heat output ensure the long life of pump laser and high reliable work. RS232 and RJ45 offer serial commutation and SNMP network port. The work status of equipment's warning signal; Optical loss, laser operating status etc can be displayed on the front LCD panel.



### FEATURES

- 40dB high gain (Pin= -30dBm)
- Low noise figure
- Broad operating bandwidth
- Laser APC, ACC, ATT
- Perfect RS232 communication interface and SNMP function
- Excellent P/P ratio

### APPLICATION

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

### SPECIFICATIONS

<i>Optic Features</i>	Min	Typ	Max	Supplement
<i>Operating wavelength(<math>\lambda</math>)</i>	1528 nm		1563 nm	
<i>Input power</i>	-38 dBm		+3 dBm	
<i>Output power</i>	+8 dBm		+15 dBm	Pin=-6dBm
<i>Noise figure</i>			5.0 dB	Pin=-6dBm
<i>Gain (Pin=-30dB)</i>	25 dB			LA5325
	30 dB			LA5330
	35 dB			LA5335
	40 dB			LA5340
<i>Polarization dependence loss</i>		0.1 dB	0.3 dB	
<i>Polarization dependence gain</i>			0.5 dB	
<i>Polarization mode dispersion</i>			0.4 ps	
<i>Pump power leakage</i>			-30 dB	
<i>Return Loss</i>	46 dB			UPC
	55 dB			APC
<i>Connector</i>		FC/APC, SC/APC, LC/APC		

General Features		
SNMP network management interface	RJ45	Option
Communication interface	RS232	Option
Power supply	90~265 city power V	Optical -48VDC
Power consume	≤50 W	
Work temp.	0~50 °C	
Storage temp.	-40 ~+85 °C	
Operating relative humidity	5~95 %	
Size (W)×(D)×(H)	19×14×1.75 "	1RU: (W)×(D)×(H)

## ORDERING INFORMATION

Model	Single gain (dB)	Output power (dBm)	Gain flatness (dB)	Noise figure(dB)
	Pin= -30dBm	Pin= -6dBm		Pin= -6dBm
LA5325	25	8	<1.0	<4.0
LA5330	30	10	<1.0	<4.0
LA5335	35	12	<1.0	<4.0
LA5340	40	13	<1.0	<4.5
LA5345	45	15	<1.0	<4.5