

DWDM Booster EDFA

Lightem LDWA51 Fiber optic EDFA product series features gain spectrum inclination, provide Gain flatness Boost in C-Band (1528~1564nm). It meets DWDM system C-Band boost EDFA's requirement – gain flatness and high output power requirement. It is optimized in design of the optical path and high-quality GFF, as well as gain spectrum <1.0dB (typ. <0.8dB) in the whole C-Band. It can also be applied to WDM fiber optic CATV system for transmitting multi-wavelength video, audio and data. LDWA51 front LCD panel provides features include work index of all equipment include, alarm, optical loss, laser operating status.



FEATURES

- Low noise, high performance and high reliability
- Broad operating bandwidth – The gain flatness less than 1.0dB (Typ.=0.8dB)
- Total output power: 20~2500mW optional – At most 64 ports output
- OADM (Add/Drop) In put port and out put port can choose OADM (Add/Drop)
- The control of laser APC, ACC, ATC – Perfect RS232 communication interface and SNMP function
- Highly active rooms set and use conveniently – Excellent P/P ratio

SPECIFICATIONS

Optical Parameters	Min	Typ	Max	Unit	Remark
Operating wavelength range	1529.16		1563.86	(nm)	ITU 88Ch
No. of working channels	1	44		(CH)	
Input optical power	-6		+6	(dBm)	
Saturated output power	13		24	(dBm)	Refer to ordering info.
	26		28	(dBm)	
Variable output power range	-6			(dB)	VG version
Signal gain	13		30	(dB)	Refer to ordering info.
Variable gain range	-12		0	(dB)	VG version
Gain Flatness		0.7	1.0	(dB)	Value of Peak to Peak
Noise figure		5.0		(dB)	Max Output & gain
Polarization dependence loss (PDL)			0.3	(dB)	
Polarization dependence Gain (PDG)			0.3	(dB)	
Polarization mode dependence (PMD)			0.3	(ps)	
Pump leakage power			-30	(dB)	
Input/Output optic isolation	30			(dB)	UPC
Echo loss	45			(dB)	APC
	55			(dB)	
Optical Supervisory Channel Wavelength	1500	1510	1520	(nm)	
Transient parameters					
Transient setting time (16 dB Add / Drop)			700	(μs)	
Transient Overshoot (16 dB Add / Drop)	-1.5		+1.5	(dB)	
Transient gain changes	-0.5		+0.5	(dB)	
General parameters					
SNMP network management		RJ45			
Communication interface		RS232			

<i>Power supply</i>	90	265	(V)	220VAC
	30	72	(V)	-48VDC
<i>Power consumption</i>		30	(W)	
<i>Working temperature</i>	-5	+70	(°C)	
<i>Storage temperature</i>	-40	+85	(°C)	
<i>Working relative humidity</i>	5	95	(%)	
<i>Size (W)×(D)×(H)</i>	483x205x44		(mm)	

ORDERING INFORMATION

P/N	Saturated Output Power(dBm)	Gain gain (dB)
LDWA5117-13	17	13
LDWA5117-17	17	17
LDWA5117-20	17	20
LDWA5117-22	17	22
LDWA5117-24	17	24
LDWA5120-17	20	17
LDWA5120-20	20	20
LDWA5120-22	20	22
LDWA5120-25	20	25
LDWA5120-27	20	27
LDWA5122-17	22	17
LDWA5122-20	22	20
LDWA5122-22	22	22
LDWA5122-24	22	24
LDWA5122-27	22	27
LDWA5123-18	23	18
LDWA5123-20	23	20
LDWA5123-22	23	22
LDWA5123-23	23	23
LDWA5123-24	23	24
LDWA5123-27	23	27
LDWA5124-18	24	18
LDWA5124-20	24	20
LDWA5124-22	24	22
LDWA5124-24	24	24
LDWA5124-27	24	27
LDWA5126-22	26	22
LDWA5126-24	26	24
LDWA5126-27	26	27
LDWA5126-28	26	28
LDWA5123-24	23	24
LDWA5127-24	27	24
LDWA5127-27	27	27
LDWA5127-30	27	30
LDWA5128-24	28	24
LDWA5128-27	28	27
LDWA5128-30	28	30