

Lightem LDS26 Series SAT IF 30~2600MHz Transmitter

LDS26 is an optical transmitter, adopt high linearity DFB laser, modulated directly. It can transmit 30~2600MHz digital TV, move media broadcast (MMB, CMMB) and satellite live telecast TV(DBS, SAT-IF) signal. 1550nm optical transmitter, ITU standard wavelength can be selected, suitable for DWDM to realize network-upgrading and capability-expansion. It can work together with EDFA, YEDFA to amplify the optical power. It can be compatible with any FTTH PON technology.



FEATURES

- High wide band: 30~2600MHz
- Suitable for Digital TV & Satellite TV application
- One fiber can transmit signal of 10 sets of TV, DTV and satellite TV
- HGHL DFB laser, can choose cooling and non-cooling
- 1310nmTX, output power upto 30mW
- 1550nmTX, ITU wavelength optional, apply in DWDM, reach network promotion and dilatation
- 1550nmTX can be amplified by EDFA, YEDFA to cover large-scaled FTTH, compatible with any FTTH PON technology
- Multiple performance frame, suitable for application of different scale network
- Excellent P/P ratio

SPECIFICATIONS

Optic Features	Min	Typ	Max	Supplement
Operating wavelength range	1300 nm	1310 nm	1320 nm	
	1530 nm	1550 nm	1563 nm	
		ITU G		
	1270 nm	CWDM	1610	
Wavelength adjustable range	-1.6 nm		+1.6nm	
Wavelength adjustable mode		In steps ± 0.01 nm		
Wavelength stability	-1 Pm/ $^{\circ}$ C		0 Pm/ $^{\circ}$ C	TC=20~70 $^{\circ}$ C
Equivalent noise temperature			-155 dB/Hz	
Side mode suppression ratio	35 dB			
Optical isolation	30dB			
SBS	16dBm			1310 nm
	18 dbm			1550 nm
Optical output power	1 mW		10 mW	
	10 mW		30 mW	
	1 mW		4 mW	
	4 mW		10 mW	
Return loss	50 dB			
Optical connector		SC/APC & LC/APC		
RF features				
Operating bandwidth	30 MHz		2600 MHz	
Input range	-40 dBm		-25 dBm	with AGC amplification

<i>RF feature</i>	Min	Typ	Max	Supplement
<i>Flatness</i>	-1 dB		+1 dB	30~860MHz
	-0.5 dB		+0.5 dB	40 MHz
	-2 dB		+2 dB	950~2400MHz
<i>Return loss</i>	14 dB			30~860MHz
	10 dB			950~2400MHz
<i>Channel loading</i>		64QAM Ch.		Digital TV
		36 Ch.		QPSK or FM
<i>CNR</i>	28 dB			
<i>CTB</i>			-36 dB	
<i>CSO</i>			-36 dB	
<i>Input Impedance</i>	75Ω			
<i>RF connector</i>		F-Female		
		SMA-F		
<i>General feature</i>				
<i>SNMP interface</i>		RJ45		
<i>Communication interface</i>		RS232		
<i>Power supply AC</i>	90 V	220 V	265 V	
<i>DC</i>	-30 V	-48 V	-72 V	
<i>Power consumption</i>			5 W	Single PS
<i>Operating temp.</i>	-5 °C		+65 °C	
<i>Storage temp.</i>	-40°C		+85°C	
<i>Relative humidity</i>	5%		95%	
<i>Size</i>		19×14.5×1.75 "		19" Rackmount
		59×98×23 mm		Desktop
		117×72×29 mm		Wall Mount
		150×135×98 mm		Outdoor metal box

ORDERING INFORMATION

P/N	DESCRIPTION
LDS26xx-yy-zz-aa-bb-c	
xx	01. 19" Rackmount 02. Desktop 03. Wall Mount 04. Outdoor metal box
yy	01-1mW 02-2mW 03-3mW 04-4mW 06-6mW 08-8mW 10-10mW 12-12mW 14-14mW 16-16mW 18-18mW 20-20mW 24-24mW 30-30mW
zz	wavelength 31 -1310 55 - 1550
aa	FA- FC/APC SA- SC/APC LA- LC/APC
bb	48-48VDC 22-220VAC 11-110VAC
c	M-with SNMP Network Management
c	N-without SNMP Network Management