

Lightem 47~2600MHz Digital TV & Satellite TV LRS26DP

Lightem LRS26DP optical receiver, adopting high-sensitivity PIN detector, receiving sensitivity is -22dBm, typical value -13dBm. It can receive analogue and digital signal with the frequency of 47~2600MHz on a single fiber, and compatible with any FTTx PON to achieve triple-network combination between Analog TV (<10CH), Digital TV (DVB-C, DVB-T), Satellite TV (DVB-S) and Internet & FTTH.

Lightem LRS26DP: Adopting 1U 19" standard casing, the working parameters of the unit is controlled by micro-processor. LCD on the front panel can display the working status and failure diagnosis. Standard RS232 communication interface, SNMP network management function, which is suitable for project application.



FEATURES

- PIN optical receiving, -22dBm receiving sensitivity, typical value: -13dBm.
- High linearity, suitable for Digital TV & SAT-IF application.
- Wide band type: 47~2600MHz.
- 10CH Analog TV, Digital TV (DVB-C), Satellite TV (DVB-S) signal can receive via a single fiber at the same time.
- It can be compatible with any FTTx PON technology.
- Different exterior structures. Suitable for FTTH, FTTP, FTTB, FTTC.
- Excellent P/P Ratio.

SPECIFICATIONS

Optic Features	Min	Typ	Max	Supplement
Operating wavelength range	1260 nm		1620 nm	LRS26DP-N
	1540 nm		1563 nm	LRS26DP-M
Pass wavelength		1310/1490 nm		LRS26DP-M
Responsibility - R13	0.9 A/W			1310nm
R15	0.95 A/W			1550nm
Receiving optical power		-13 dBm		
Typical			-22 dBm	Pr
Sensitivity				Po
Overload	+3 dBm			
Optical Receiving PD		PIN		
Return loss	50 dB			
Optical connector		SC/APC or LC/APC		
IF feature				
Operating bandwidth	47MHz		2600 MHz	
Output level	10 dBmV		30 dBmV	
Flatness	-1 dB		+1dB	47~860MHz
	-0.5 dB		+0.5 dB	40MHz
	-1.5 dB		+1.5 dB	950~2400MHz
Output return loss	14 dB			47~860MHz
	12 dB			950~2400MHz

	Min	Typ	Max	Supplement
<i>Channel loading</i>			10 Ch	Analogue TV
			64QAM Ch	Digital TV
			36 Ch	QPSK or FM
<i>IM3</i>	-65 dB			
<i>HUM</i>	-60 dB			
<i>IP1</i>	18 dBm			
<i>Impedance</i>		75 Ω		Option 50Ω
<i>RF connector</i>		F-female		75Ω
		SMA-F		50Ω
<i>General feature</i>				
<i>SNMP interface</i>		RJ45		
<i>Communication interface</i>		RS232		
<i>Power supply AC</i>	90 V	220V	265 V	
<i>DC</i>	-30 V	-48 V	-72 V	
<i>Power consume</i>			5 W	Single PS
<i>Operating temp.</i>	-5		+65 °C	
<i>Storage temp.</i>	-40		+85 °C	
<i>Operating relative humidity</i>	5%		95 %	
<i>Size</i>		19×14.5×1.75"		LRS26DP-1
		483×368×44 mm		
		2.3×3.9×0.9"		LRS26DP-2
		59×98×23mm		
		4.6×2.8×1.1"		LRS26DP-3
		117×72×29mm		
		5.9×5.3×3.9"		LRS26DP-4
		150×135×98 mm		

ORDERING INFORMATION

P/N	DESCRIPTION
LRS26DPx-yy-bb-a	Lightem Satellite Optical Receiver
x	1 - 19" Rackmount
	2 - small ferrous box , desktop type
	3 - small aluminum box, wall mounted
	4 - alluminum die casting rainproof type
yy	SA - SC/APC
	FA - FC/APC
	LA - LC/APC
bb	48-48VDC
	22-220VAC
	11-110VAC
a	M-with SNMP Network Management
	N-without SNMP Network Management