

Lightem LSIFR series 950~2600MHz SAT-IF Fiber Receiver

LSIFR series adopting high-sensitivity PIN detector, receiving sensitivity is -22dBm, typical value: -13dBm. It can receive analogue and digital signal on satellite antenna LNB with the frequency of 950~2600MHz, It can be compatible with any FTTx PON to realize combination of Direct Broadcasting Satellite (DBS)with Internet and FTTH, it can also be used for L-Band uplink/downlink of satellite communication.



FEATURES

- PIN detector, -22dBm receiving sensitivity, typical value: -13dBm.
- 950~2600Mhz high bandwidth, suitable for SAT-IF application.
- Receiving all L-BAND satellite signal of LNB over single fiber.
- 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	LSIFR-cc-dd-N
	1540 nm		1563 nm	LSIFR-cc-dd-M
Pass wavelength		1310/1490 nm		LSIFR-cc-dd-M
Responsibility - R13	0.9 A/W			1310nm
R15	0.95 A/W			1550nm
Receiving optical power				
Typical		-13 dBm		
Sensitivity			-22 dBm	Pr
Overload	+3 dBm			Po
Optical Receiving PD		PIN		
Return loss	50 dB			
Optical connector		SC/APC or LC/APC		
RF feature				
Operating bandwidth	950MHz		2600 MHz	
Output level	10 dBmV		30 dBmV	
Flatness	-0.5 dB		+0.5dB	40MHz
	-1 dB		+1 dB	950~2400MHz
Output return loss	12 dB			950~2400MHz
Channel loading			36 Ch.	QPSK or FM

	Min	Typ	Max	Supplement
<i>IM3</i>	-65 dB			Digital TV
<i>HUM</i>	-60 dB			QPSK or FM
<i>IP1</i>	18 dBm			
<i>Output 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"		19" Rackmount
		483×368×44 mm		
		2.3×3.9×0.9"		Desktop
		59×98×23mm		
		4.6×2.8×1.1"		Wall Mount
		117×72×29mm		
		5.9×5.3×3.9"		Metal Box
		150×135×98 mm		

ORDERING INFORMATION

P/N	DESCRIPTION
LSIFR-cc-dd-x	
cc:	FA- FC/APC
	SA- SC/APC
	LA- LC/APC
dd:	48-48VDC
	22-220VAC
	11-110VAC
X:	M-with SNMP Network Management
	N-without SNMP Network Management