

HRS-26D/P Series

47~2600MHz

Digital TV & Satellite TV

PIN optical receiver

Technical Specification

CONTENT

1.0 PRODUCT DESCRIPTION.....	1
2.0 PRODUCT FEATURE.....	2
3.0 TECHNICAL INDEX.....	3
4.0 OPTICAL RECEIVER ELECTRICAL SCHEMATIC DIAGRAM.....	4
4.1 HRS-26D/P-□13-00.....	4
4.2 HRS-26D/P-□13-WD.....	5
5.0 PRODUCT SERIES.....	6
6.0 ORDERING INFORMATION.....	6

1.0 PRODUCT DESCRIPTION

HRS-26D/P 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.

HRS-26D/P-113-00: 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.

HRS-26D/P-213-00: Desktop, minimum exterior structure in the industry.

HRS-26D/P-313-00: Wall-mounted.

HRS-26D/P-913-00: Rainproof type, suitable for outdoor installation.

HRS-26D/P-213-WD: Desktop, suitable for FTTx PON. Built-in WD1543 which can un-seamed connect with ONU in EPON, GPON system.

HRS-26D/P-313-WD: Wall-mounted, suitable for FTTx PON. Built-in WD1543 which can un-seamed connect with ONU in EPON, GPON system.

2.0 PRODUCT FEATURE

- 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.

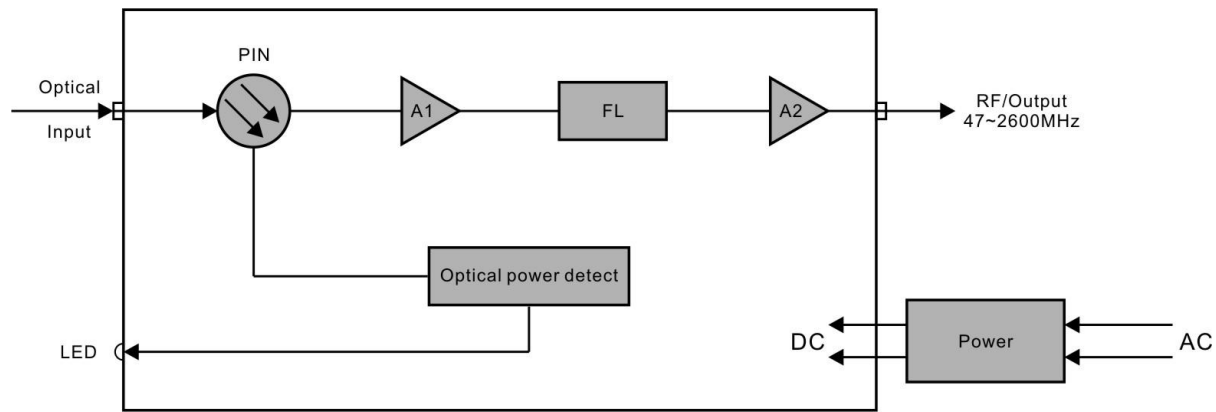
3.0 Technical index

Performance				Index			Supplement	
				Min.	Typ.			Max.
Optical feature	Operating wavelength		(nm)	1260			1620	HRS-26D/P-×××-00
				1540			1563	HRS-26D/P-×××-WD
	Pass wavelength		(nm)		1310/1490			HRS-26D/P-×××-WD
	Reasonability	R13	(A/W)	0.9				1310nm
		R15		0.95				1550nm
	Receiving optical power	Typical	(dBm)		-13			
		Sensitivity					-22	Pr
		Overload		+3				Po
	Optical receiving PD			PIN				
	Return loss		(dB)	50				
Optical connector			SC/APC or LC/APC					
RF feature	Working bandwidth		(MHz)	47			2600	
	Output level		(dBmV)	10			30	
	Flatness		(dB)	-1.0			+1.0	47~860MHz
				-0.5			+0.5	40MHz
				-1.5			+1.5	950~2400MHz
	Output Return loss		(dB)	14				47~860MHz
				12				950~2400MHz
	Channel loading		(CH)				10	Analogue TV
							64QAM	Digital TV
							36	QPSK or FM
	IM3		(dB)	-65				
	HUM		(dB)	-60				
	IP1		(dBm)	18				
	Output impedance		(Ω)		75			Option 50 Ω
	RF connector			F-female				75 Ω
				SMA-F				50 Ω
General feature	SNMP interface			RJ45				HRS-26D/P-113
	Communication interface			RS232				HRS-26D/P-113
	Power supply	AC	(V)	90	220	265		

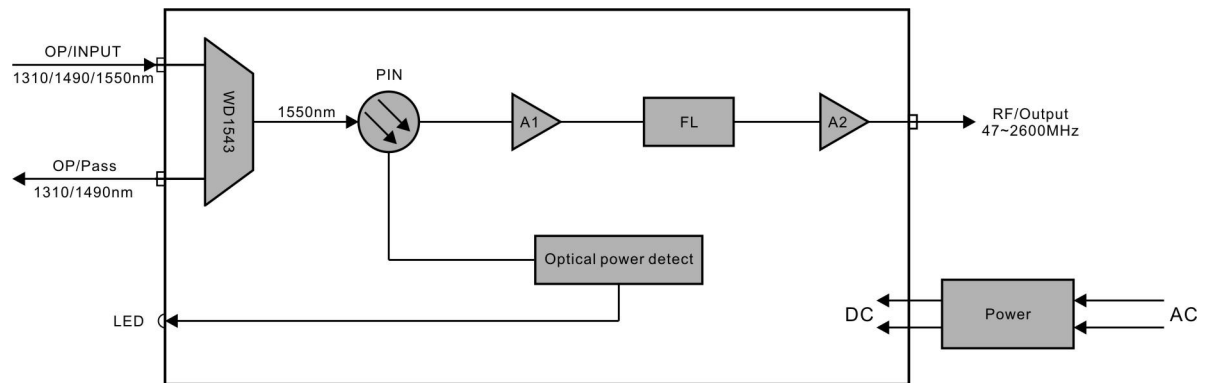
		DC		-30	-48	-72	
	Power consumption	(W)				5	Single PS
	Operating temp.	(℃)		-5		-65	
	Storage temp.	(℃)		-40		+85	
	Relative humidity	(%)		5		95	
	Size	(")	19 × 14.5 × 1.75			HRS-26D/P-113	
		(mm)	59 × 98 × 23			HRS-26D/P-213	
			117 × 72 × 29			HRS-26D/P-313	
			150 × 135 × 98			HRS-26D/P-913	

4.0 Optical receiver electrical schematic diagram

4.1 HRS-26D/P-□13-00



4.2 HRS-26D/P-□13-WD



5.0 Product series

Model	Optical receiving PD	Typical value of receiving power	Exterior structure	WDM
HRS-26D/P-113-00	PIN	-13dBm	19" 1RU	None
HRS-26D/P-213-00	PIN	-13dBm	Desktop	None
HRS-26D/P-213-WD	PIN	-13dBm	Desktop	Built-in WDM
HRS-26D/P-313-00	PIN	-13dBm	Wall-mounted	None
HRS-26D/P-313-WD	PIN	-13dBm	Wall-mounted	Built-in WDM
HRS-26D/P-913-00	PIN	-13dBm	Outdoor Rainproof	None

6.0 Ordering information

HRS - 26D / P - 1 3 - 00 - 0 / 00 - 00

Product type		Operating bandwidth		Optical receiving PD type		Product feature		Reception sensitivity		WDM		Optical port position		Connector		Power supply			
HES	Satellite Externally Modulated Optical Transmitter	26A	47~862MHz & 950~2600MHz Analog TV + SAT-IF	P	PIN	1	19" standered type	13	-13dBm	00	Without WDM	F	Front panel	SA	SC/APC	48	-48VDC		
				A	APD	2	Small ferrous box, desk-type	24	-24dBm	WD	With WDM	B	Back panel	FA	FC/APC	22	220VAC		
HDS	Satellite Direct Modulated Optical Transmitter	26D	47~2600MHz Digital TV + SAT-IF			3	Small aluminum box, wall-mounted type									LA	LC/APC	11	110VAC
HRS	Satellite Optical Receiver	26S	950~2600MHz SAT-IF			9	Aluminum die-casting rainproof type												
						0	OEM												
						7	Distinctive appearance performance												
						8	2U, 3U plug-in												