

HR2071A, HR2071B

HFC 7 ways return path optical receiver 1 way reverse optical transmitter

PRODUCT DESCRIPTION

HR2071 series of HFC seven-way return path receiver, one way reverse optical transmitter, mainly used at the head-end to convert upstream optical signal to RF signal at the user side. Moreover, send back the data at sub-HE to main head-end through one way of DFB return path transmitter. Eight independent units integrated into a 1RU 19" casing to provide service for HFC network terminal of ONTs. The receivers' low noise design of -22dBm receive sensitivity, allow to supply service to farther distance.

There are two versions of this receiver. HR2071A with LCD on the front panel, HR2080B without LCD. All receivers are temperature tolerance type can be installed in any network



surroundings including out-door type. Both of these two types can adopt SNMP function, which can control the front panel to realize optimization work at the head-end and remote installment.

PRODUCT FEATURES

- ▶7 low noise optical receiver, up to -22dBm receive sensitivity.
- ▶ One way return path transmitter can send back the data at sub-HE to main head-end.
- ▶ 1200~1620nm wide wavelength
- ▶ SNMP network management function option
- ▶RF output level can be adjusted by network
- ▶ Built-in 1+1 backup power, redundant A/B inputs (option)
- ▶ Good performance of resistance to temperature, allow -40~+65°C operating temperature
- ▶ Simple mode, high density, 19" 1RU mount, contain 8 pcs of independent optical receiver and optical transmitter
- ▶ Excellent P/P ratio

MAIN APPLICATION

▶HFC network sub-HE



TECHNICAL INDEX

Up-stream optical receiver

Performance					Index	Cunnlament	
				Min.	Тур.	Max.	Supplement
	Operating wavelength		(nm)	1260		1620	
	Responsivity	R13	(A/W)	0.85	0.95		1310nm
		R15		0.85	1.0		1550nm
Optical feature		R16			0.85		1610nm
	Optical link budget loss		(dB)	17			
	Receiving power	Typical	(dBm)	-17		-7	
ature		Sensitivity			-23	-22	Pr
		overload		0	+1		Ро
	Number of optical receiver		(pcs)		7		
	Return loss		(dB)	50			
	Optical connector			SC/APC		LC/APC option	
	Operating bandwidth		(MHz)	5		200	
	RF output level		(dBmV)	30		60	
꾸	RF gain adjustable		(dB)	-30		0	settable=1dB
RF feature	Flatness		(dB)	-0.75		+0.75	
lre	Return loss		(dB)	16			
	RF test point/monitor		(dB)	-20.5	-20	-19.5	
	Noise power ratio		(dB)	41			Link loss >15dB
	Power supply	AC	(V)	90	220	265	
ଦୁ		DC		-30	-48	-72	
enera	Power consume		(W)			96	
General feature	Operating temp.		(℃)	-40		+65	
	Relative humidity		(%)	5		95	
	Size (W)×(D)×(H)		(mm)	483×305×44			



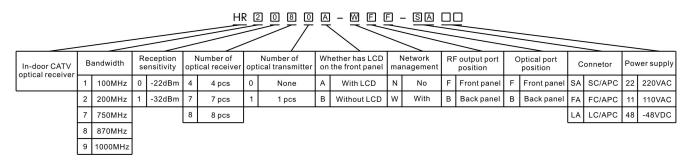
Up-stream optical transmitter

	Dorformanco		Index			Cumplement
Performance			Min.	Тур.	Max.	Supplement
Optical feature		(nm)		1310		
				1550		
				1470		CWDM 1470
				1490		CWDM 1490
	Reverse transmitter operating			1510		CWDM 1510
	wavelength			1530		CWDM 1530
				1550		CWDM 15500
				1570		CWDM 1570
				1590		CWDM 1590
				1610		CWDM 1610
	Time of leasen with matrims weath	(dDay)	DFB without ISO			DFP
	Type of laser with return path	(dBm)	DFB with ISO			DFI
	Output power		1.2			1dBm
		(mW)	2			3dBm
			2.5			4dBm
			3			5dBm
	Return loss	(dB)	50			
	Output power monitor	(V/mW)		1		
	Optical connector		SC/APC			
RF feature					30	Duplexer 30/47
	Operating bandwidth	(MHz)	5		42	Duplexer 42/54
					65	Duplexer 65/87
	Flatness	(dB)	-0.5		+0.5	5~65MHz
	Noise power ratio	(dB)	41			Link loss ≥15dB
	Input level	(dBmV)		20		
	Return loss	(dB)	16	18		5~65MHz
	Input level monitor	(dB)		20		



MODEL EXPLANATION

Optical Receiver



Optical Transmitter

