

FOR82/1550 kód: [17CRT0360](#)

Optický mini prijímač FTTH CATV so zabudovaným filtrom 1310/1490 nm pre systémy s jedným vláknom a tromi vlnovými dĺžkami, určený pre prevádzkovú vlnovú dĺžku 1550 nm CATV v konfigurácii typu A.



Performance			Index	Supplement
Optic feature	CATV work wavelength	(nm)	1260~1620	H9122 (A -Type)
			1540~1563	H9122/WF,H9122/WD (A & B & C Type)
	Pass wavelength	(nm)	1310, 1490	H9122/WD (B & C Type)
	Channel Isolation	(dB)	≥40	1550 & 1490nm
	Responsivity	(A/W)	≥0.85	1310nm
			≥0.9	1550nm
	Receiving power	(dBm)	+2 ~ -10	Analog TV (CNR>45dB)
			+2 ~ -20	Digital TV (MER>29dB)
	Optical return loss	(dB)	≥55	
	Optical fiber connector		SC/APC	H9122, H9122/WF
			LC/APC	H9122/WD
RF feature	Work bandwidth	(MHz)	47~862	
	Flatness	(dB)	≤±0.75	47~862MHz
	Output level	(dBμV)	>82	Analog TV (Pin=-3dBm)
			>82	Digital TV (Pin=-5dBm)

	Output level adjust	(dB)	0 ~ 18	MGC
	Return loss	(dB)	≥14	47 ~ 862MHz
	Output impedance	(Ω)	75	
	Output port number		1	
	RF tie-in		F-Female	F-male optional
Analog TV Link feature	Test channel	CH	59CH(PAL-D)	NTSS/80CH
	OMI	(%)	3.8	
	CNR1	(dB)	54.6	Pin=-2dBm
	CNR2	(dB)	45.1	Pin=-10dBm
	CTB	(dB)	≤-65	Pin:0~-10dBm
	CSO	(dB)	≤-65	Pin:0~-10dBm
Digital TV Link feature	OMI	(%)	4.3	
	MER	(dB)	≥36	Pin = -15.0dBm
			≥31	Pin = -19.0dBm
	BER	(dB)	<1.0E-9	Pin :+2.0 ~-20dBm
General feature	Power supply	(V)	DC+12V	±1.0V
	Power Consume	(W)	≤3	+12VDC, 210mA
	Work temp	(°C)	-20 ~ +55	
	Storage temp	(°C)	-40 ~ 85	
	Work relative temp	(%)	5 ~ 95	
	Size	(mm)	38×80×20	A -Type
			50×88×22	B -Type
			59.5×98×24	C -Type

Test data

➤ Analog TV test data (PAL-D59CH, OMI=3.8%)

Pin(dBm)	+2	+1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
Vo(dBμV)	93.3	91.2	89.3	87.3	85.1	83.4	81.0	79.5	77.6	75.0	73.1	71.5	69.1
PAD(dB)	0	0	0	0	0	0	0	0	0	0	0	0	0
CNR(dB)	58.1	57.3	56.7	55.4	54.6	53.8	53.0	51.9	50.4	50.1	47.9	46.8	45.1
CTB(dB)	65.7	70.0	70.9	72.1	71.1	75.0	74.0	72.0	70.6	69.3	68.5	67.6	65.7
CSO(dB)	67.2	69.6	70.9	70.7	70.3	72.8	72.0	68.6	65.4	67.4	69.8	65.3	66.7

➤ Digital TV test data (Pin=+2.0dBm ~ -20.0dBm)

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Pin(dBm)	Vo(dBμV)	MER	BER	
			POST	PRE
+2.0	97	39.0	<1.0E-9	<1.0E-9
+1.0	94.9	39.0	<1.0E-9	<1.0E-9
+0.0	92.7	39.0	<1.0E-9	<1.0E-9
-1.0	90.1	39.0	<1.0E-9	<1.0E-9
-2.0	88.8	39.0	<1.0E-9	<1.0E-9
-3.0	86.8	39.0	<1.0E-9	<1.0E-9
-4.0	84.6	39.0	<1.0E-9	<1.0E-9
-5.0	82.2	39.0	<1.0E-9	<1.0E-9
-6.0	80.2	39.0	<1.0E-9	<1.0E-9
-7.0	78.9	39.0	<1.0E-9	<1.0E-9
-8.0	76.0	39.0	<1.0E-9	<1.0E-9
-9.0	75.1	38.9	<1.0E-9	<1.0E-9
-10.0	72.9	38.8	<1.0E-9	<1.0E-9
-11.0	70.5	38.6	<1.0E-9	<1.0E-9
-12.0	68.4	37.8	<1.0E-9	<1.0E-9
-13.0	67.2	37.6	<1.0E-9	<1.0E-9
-14.0	64.9	37.4	<1.0E-9	<1.0E-9
-15.0	62.7	36.8	<1.0E-9	<1.0E-9
-16.0	60.7	35.7	<1.0E-9	<1.0E-9
-17.0	59.1	34.5	<1.0E-9	<1.0E-9
-18.0	57.1	33.3	<1.0E-9	<1.0E-9
-19.0	55.1	31.2	<1.0E-9	<1.0E-9
-20.0	53.1	29.4	<1.0E-9	2.2E-9

Remak : 1. The Original Signal : MER = 39.0dB, BER <1.0E-9

2. Test Frequency : The Curve is: 858.00MHz, OMI=4.3%

Product series

Model	Input wavelength	CATV operating wavelength	Data pass wavelength	Fiber connector	Form
H9122/WF	1310, 1490/1550nm	1540~1563nm	-	SC/APC	A - Type

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