

6.0 NOTE

1. When using the RF connector, and the RF input interface must be tightened to STB. Otherwise the ground is bad and will cause high frequency segments Digital TV signals MER degradation.
2. Keep the optical connector clean, the bad link will cause too low RF output level.

SR100WD

FTTH CATV Passive Node

(45~1050MHz)



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4.0 TECHNICAL INDEX

№	Optic feature	Unit	Index	Supplement
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1.0 PRODUCT DESCRIPTION

SR100WD CATV converter is for digital television, fiber to the home. This machine adopts the high sensitivity optical receiving tube, without power supply, no power consumption. When the input optical power output level Pin=-1dBm, Vo=68dBuV, economic, flexible application integration, application of fiber to the home network.

It is Built-in CWDM, suitable for single-fiber triple wavelength system, CATV operating Wavelength 1550nm, pass wavelength 1310/1490nm, can conveniently connect the ONU of EPON, GPON.

2.0 PRODUCT FEATURE

1.No Power required

2.Work bandwidth 45~1050MHz

3.0 TEST DATA

Test Frequency: 366MHz

Pin (dBm)	Output Leve(dBuV)		MER		Output Difference	MER Difference
	Max	Min	Max	Min		
0	65.1	63.2	35	33.6	1.9	1.4
-1	64.4	61.9	35.5	34.7	2.5	0.8
-2	63.1	60.7	36.3	35.4	2.4	0.9
-3	62.1	59.6	37.8	35.5	2.5	2.3
-4	60.7	58.5	39.2	35.2	2.2	4
-5	58.6	56.5	39.8	35.7	2.1	4.1
-6	57.2	55.2	39.8	35.7	2	4.1
-7	55.5	53.5	39.5	35.5	2	4
-8	53.4	51.5	39.2	34.7	1.9	4.5
-9	51.3	50	37.3	35.2	1.3	2.1
-10	49.8	48.3	35.9	34	1.5	1.9
-11	47.9	46.4	34.5	32.3	1.5	2.2
-12	45.8	44.5	32.8	30.5	1.3	2.3
-13	43.9	42.4	31	28.7	1.5	2.3
-14	41.9	40.6	29.4	26.8	1.3	2.6
-15	39.9	38.7	27.7	25.7	1.2	2

	CATV Work wavelength	(nm)	1540~1560		
	Pass wavelength	(nm)	1310~1490		
	Channel Isolation	(dB)	≥40	1550nm&1490nm	
	Response	(A/W)	≥0.85	1310nm	
			≥0.9	1550nm	
	Receiving power	(dBm)	+1~-15		
	Optical return loss	(dB)	≥55		
Optical fiber connector		SC/APC	Input		
RF Feature	Work bandwidth	(MHz)	45~1050MHz		
	Output level	(dBμV)	61.9 - 64.4	Digital TV (Pin= -1dBm)	
	Return loss	(dB)	≥14	47~862MHz	
	Output impedance	(Ω)	75		
	Output port number		1		
	RF tie-in		F-Female		
Feature	Digital TV	OMI	(%)	4.3	
		MER	(dB)	34.7 - 35.5	Pin= -1dBm
				28.7 - 31	Pin= -13dBm
BER		<1.0E-9	Pin: +1~-15dBm		
Feature	General	Work temp	(°C)	-20~+55	
		Storage temp	(°C)	-40~85	
		Work relative temp	(%)	5~95	

5.0 PRODUCT SERIES

Model	Input wavelength	CATV Operating	Data pass	Output Fiber	Input Fiber
SR100-WD	1310,1490/1550nm	1540~1560nm	1310/1490nm	SC/APC	SC/UPC OR SC/APC