

Spec ,ftth node is one high-performance receiver which is only designed for FTTH application scene. It adopts equivalent input of very low noise differential amplifying circuit, cooperate with wide range of optical control AGC circuit to make sure the receiver can have excellent CTB, CSO and Noise Ratio under wide range of input .

FEATURES

- ✳ With AGC function
- ✳ Good linearity index
- ✳ Inside 47~862MHz,all have good flatness property
- ✳ Aluminium shell, supply safeguards to opto-electronic sensing device
- ✳ High output level can supply for many users
- ✳ Low power consumption, high cost performance



FC FIBER OPTICAL RECEIVER FTTH NODE

Spec optical receiver (FTTH node) with high performance, low cost and economical in prise. It is applicable to various application of the HFC network fiber to the home (FTTH), and can provide high reliability analogue, digital video frequency and data bi-directional transmission for the HFC network.

FEATURES

- ✳ Excellent linearity and flatness.
- ✳ Extremely good return loss.
- ✳ Compact construction, lower power consumption.
- ✳ WDM option to achieve single fiber bi-directional transmission.
- ✳ Multi-communications transmitting wavelength and power optional.



TECHNICAL PARAMETERS

ITEMS	UNITS	DC NODE, FAL & DC NODE MS
OPTICAL PARAMETER		
Received Optical Power Range	dBm	- 15 ~ + 2
Recommended Range	dBm	- 6 ~ +1
Optical Return Loss	dB	>45
Optical Receiving wave length	nm	1100 ~ 1600
Optical Fiber Connector Type		FC/APC, SC/APC (or specified by the user)
LINK PERFORMANCE		
C/N	dB	≥ 50
C/CTB	dB	≥ 65
C/CSO	dB	≥ 64
RF PARAMETER		
Nominal Output Level	dBμv	≥ 85 @ - 2dBm
Maximum Output Level	dBμv	≥ 95
Output Return Loss	dB	≥ 11

ITEMS	UNITS	DC NODE, FAL & DC NODE MS
RF PARAMETER		
Frequency Range	MHz	45 ~ 862
Flatness in Band	dB	± 0.5(45~550),± 0.75(55~800)
Output Impedance	Ω	75
RETURN CHARACTERISTICS		
Frequency Range	MHZ	5~30/65
Flatness in Band	dB	±1
RF Input Power	dBμv	80
Power Return Loss	≥	15
GENERAL CHARACTERISTICS		
Supply Voltage	V	DC 8 ~ 12V
Operating Temperature	°C	- 10 ~ +40
Storage Temperature	°C	- 25 ~ +55
Relative Humidity	%	Max 95% No Condensation
Power Consumption	VA	≤ 7