

REVERSE PATH NODE/AMPLIFIER



Spec reverse optical node applies for two-way interactive multifunction business requirement of HFC wide band network of fiber transmission system and meet the transmission requirement of CATV network business and telephone, data and value added services, etc.

FEATURES

- ✳ 5-1000MHz optimization circuit design, frequency bandwidth according to system customization.
And it shall also be upgraded according to the using request.
- ✳ Specialized optical receiving module to receive, high working reliability.
- ✳ Output level can be 112dBμV.
- ✳ Good network management function, based on SNMP protocol, meet the national standard.
- ✳ Return amplifiers are employed to carry the reverse path signals (5 – 42 MHz)(signal as per customer demand).
- ✳ Diplex filters are used to separate the reverse signals from the forward path.
- ✳ A diplex filter is a Low-pass and High-pass combination.

REVERSE PATH
NODE



Spec amplifier used in cable transmission system and it can offer high quality video transmission service. The equipment adopts surface mounting technology with elegant appearance and reliable performance. The main component of bidirectional amplifier reverse path is modular structure. It's flexible and convenient and it can be realized the bi-directional upgrade conveniently.

FEATURES

- ✳ High-quality diplex filter, split points optional.
- ✳ Forward amplifying circuit adopt two modules to enlarge.
- ✳ Low-noise push pull amplifier module, make sure the noise indicator of equipment; later stage uses power doubler module.
- ✳ Adjustable attenuator and equalizer in forward and reverse path, equipped with two balancing attenuation adjustment.

TECHNICAL PARAMETERS

ITEMS	UNITS	TECHNICAL PARAMETER
FORWARD PATH PARAMETER		
Frequency Range	MHz	45 ~862
Nominal gain	dB	32
Nominal RF input level	dBμv	72
Nominal RF output level	dBμv	104
Flatness	dB	±1.0
Noise figure	dB	= 10
Return loss	dB	=14
Gain adjustable range	dBm	0-20
Slope adjustable range	dBm	0-20
CTB	dB	=65
CSO	dB	=62
Group delay	ns	=10
Signal hum ratio		<2%
RETURN PATH PARAMETERS		
Wavelength	nm	1100-1600
Bandwidth	MHz	5-30
Nominal gain	dBm	18
Flatness dB	±0.75	
Noise figure	dB	= 12
Return loss	dB	= 16
Gain adjustable range	dBm	0-20
Slope adjustable range		2dB step
Max RF input level	dBμV	110

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