

OPTICAL TRANSMITTER



Spec Transmitter is an important equipment to built CATV HFC network. it is mainly used for long distance optical fiber transmission of television signal, digital TV signal, telephone, voice signal and data with high performance DFB laser of international brand as light source. RF power digital automatic processing technology developed and operated by us and RF pre-distortion circuit are used in the part of RF drive. Microprocessor control system is built-in it to ensure excellent performance.

FEATURES

- ✳ High performance DFB lasers with narrow lines, good linear and high output power.
- ✳ RF power digital automatic processing technology developed and operated us is used in the part of RF drive.
- ✳ Advanced multi-frequency pre-distortion technology, the latest full RF GaAs Device improve the CTB and CSO.
- ✳ RF power digital automatic processing technology developed and operated ourselves is used in the part of RF drive. It automatically adjusts the RF drive power according to the input RF signal level and channel number. To ensure CSO, CTB and C/N index in the best value and overall system performance.
- ✳ Advanced multi-frequency pre-distortion technology the latest full RF GaAs Device improve the CTC and CSO. C/N index get the maximum promotion.

TRANSMITTER
1310nm



OPTICAL IN TRANSMITTER

Spec transmitter can be used for retransmission of optical signal. It can also be used as a same 1310 RF optical transmitter. In this type of transmitter low power Optical Signal is used to convert into its equivalent RF. This RF is used as a transmitter input RF signal using loop.

OPTICAL IN
TRANSMITTER



TECHNICAL PARAMETERS

ITEMS	UNITS	TECHNICAL PARAMETER
OPTICAL PARAMETER		
Optical Power	mw	10 ~ 31
Optical Wave Length	nm	1310 ± 10
Laser Type		DFB Laser
Optical Modulating Mode		Directly Optical Intension Modulation
Optical Connector Type		FC/APC or SC/APC
MGC controlled Range	dB	± 8
AGC Controlled Range	dB	± 8
LINK PERFORMANCE		
C/CTB	dB	≥ 65
C/CSO	dB	≥ 60
RF PARAMETER		
Frequency Range	mHz	47 ~ 862
Input Level	dBμv	72 ~ 88
Flatness in Band	dB	± 0.75, ± 0.50
Input Impedance	Ω	75
Input Return Loss	dB	≥ 16 (47 ~ 550) MHz ≥ 14 (550 ~ 862) MHz
GENERAL PROFILE		
Supply Voltage	V	AV 160 v ~ 250 v (50 Hz)
Power Consumption	W	30
Operating Temperature	°C	- 5 ~ +55

MODELS

10 dBm

11 dBm

10 + 10 dBm

11 + 11 dBm

13/14/15 dBm

10x4 OUTPUT