

GYT350S CATV+SAT Fiber Optic Transmitter

GYT350S is a direct modulation 1550nm DFB transmitter for analog TV, digital TV and satellite 950~2150MHz signal fiber dense distribution. The transmitter utilizes high linearity DFB laser, RF power digital automatic process technique, along with RF pre-distortion circuit. The built-in microprocessor monitors the transmitter working status and automatically ensures the optimistic performance. GYT350S is ideal for analog TV fiber distribution within 20Km.



Features

- Low noise high linearity DFB laser
- Independent CATV RF input and Satellite RF input
- Reverse 13V or 18V DC power to LNB
- Low noise RF amplifiers
- RF power digital automatic process technology control the laser driving RF power level automatically according to RF signal level and channels, ensuring the best C/N, CTB and CSO
- Excellent pre-distortion technology improves CTB, CSO and C/N
- Built-in microprocessor accurately monitors laser output power and temperature.
- Front panel VFD displays the status parameters and function message

Specifications

Item	Parameter
Input RF connector	Two: one CATV RF, one Satellite RF
CATV RF Bandwidth	45~862MHz
CATV RF Input Level	15~25dBmV
Sat RF Bandwidth	950~2150MHz
Sat RF Input level	-50~-20dBm
Reverse DC to LNB	13V or 18V@300mA
RF Input Impedance	75 Ohm
RF Return Loss	>10dB
CATV AGC Control Range	0~15dB

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CATV MGC Control Range	0~15dB
CATV C/CTB	≥ 65
CATV C/CSO	≥ 59
CATV C/N	≥ 51
Optical Power	$> 7\text{mW}$
Output Optical Wavelength	1545~1560nm
Type of Laser	DFB laser with one-stage isolator
Optical modulation mode	Direct Modulation
Optical connector Type	SC/APC
Power Voltage	AC 100V~240V (50/60 Hz)
Power Consumption	15
Operation Temperature	0~50
Store Temperature	-40~85
Relative Humidity	Max 95% no condensation
Dimension	483 (L) \times 381 (W) \times 44 (H)
Weight	5

Test condition: Input 59 channels PAL-D signal to the optical transmitter CATV RF port and measure the standard optical receiver C/CTB, C/CSO and C/N in conditions of -1dBm optical input (10km fiber + optical attenuator) and 36 dBmV RF output.

Ordering Information:

GYT350S -AB-CD CATV+SAT Fiber Optic Transmitter

AB: 13_reverse 13V DC to LNB, 18_reverse_18V DC to LNB

CD: Optical connector, FC_FC/APC, SC_SC/APC

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