



1550 EXTERNAL MODULATION OPTICAL TRANSMITTER

SUMMARY

1550nm external Modulation optical Transmitter is mainly used for long distance optical feeder transmission of television image signal. Digital TV signal and data signal. IN the part of RF-steering. Double Microwave Sources SBS controlling technology researched and developed by us independently and advanced RF Pre-distortion circuit are adopted. Microcomputer automatic control system is built in it to make sure the excellent performance.

MAIN MONITORING PARAMETERS

- 1550nm input optical power, output optical power, pump laser (Bias current, Purchase cold current)
- RF input level, output optical Power laser (Bias current, Purchase cold current)
- 1310nm forward transmitter module : RF input level, output optical power laser (Bias current, (Purchase Cold current)
- Forward Optical Transmitter Module : Input Optical Power, Output RF Level.
- Optical Switching Module : Input Optical Power, Switching State
- RF Switching Module : Input RF Level, Switching State

ORDERING GUIDE

Make sure when ordering ;

- SBS suppression threshold which may be designed and determined by the company's technology department.
- It's default Producer Setting is Dual Output whose output power of each optical exports is from 7dBm to 9 dBm
- It's Default Producer Setting of Fiber interface is FC/APC Interface. if you have other special requirements, please tell us when ordering.

TECHNICAL PARAMETERS

ITEMS	UNITS	TECHNICAL PARAMETER
OPTICAL PARAMETER		
Optical Wavelength	nm	1550 ± 10
Laser Type		DEF Laser
Optical Modulating Mode		External Modulation
Connector Type		FC/APC or SC/APC
Optical Modulating Depth		2
Output Optical Power	dBm	3% ± 0.25
SB Threshold	dBm	2 x 7 & 2 x 9
LINK PERFORMANCE		
C/N	dB	≥ 52
C/CTB	dB	≥ 65
C/CSO	dB	≥ 65
RF PARAMETER		
Frequency Range	mHz	47 ~ 862
Input Level	dBμv	75 ~ 85
Flatness in Band	dB	± 0.75
Input Impedance	Ω	75
Input Return Loss	dB	≥ 16 (47 ~ 550 mHz), ≥ 14 (550 ~ 860 mHz)
GENERAL PROFILE		
Supply Voltage	V	160 v ~ 250 v (50 Hz)
Consumption of Current	W	30
Operating Temperature	°C	- 0 ~ +45
Relative Humidity	%	Max 95% No Condensation

PRODUCT SERIES

1. 7 dBm
2. 9 dBm
3. 7 x 2 dBm
4. 9 x 12 dBm