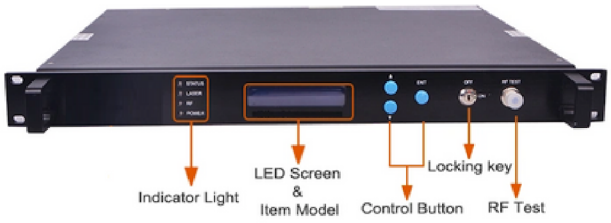
1550nm Optical Transmitter Direct Module OT1500D

Overview:

OT1500D is a 1550nm direct modulation optical transmitter with high index and AGC function. It adopts high linearity and low chirp DFB laser, built-in pre-distortion compensation and AGC, APC, ATC closed loop control, which improves the system index obviously. If working with the EDFA, there will be serious CSO deterioration. It can be used in town where the fund is shortage and the distance is less than 20km as a Transition solution



Features:

- Low chirp, high linearity DFB laser, chirp compensation
- Full-automatic OMI control, AGC & MGC
- Dual module RF driver, highly efficient laser pre-distortion adjustment
- Intuitionistic modulation select display
- Built-in dual back-up power supply, switch automatically
- Casing temperature auto-control, ensure the long life of the laser





Specifications

1. Main characters

Performance	Unit	Optical Feature	Supplement
Wavelength	(nm)	1548~1563	
Linewidth	(MHz)	≤1	FWHM(Δλ)
Side mode suppression ratio	(dB)	≥45	SMSR
Extinction ratio	(dB)	≥20	Xp
Equivalent noise intensity	(dB/Hz)	≤-160	RIN (20~1000MHz)
Output power	(dBm)	6	Optional 3, 10 ,12
Return Loss	(dB)	≥55	
Optical Fiber Connector		SC/APC	Optional FC/APC

2. RF Characteristics

Parameter	Unit	Value	Supplement
Work bandwidth	(MHz)	45 - 862	
RF Input Return Loss	(dBm)	≥ 16	
RF Input Level	(dBμV)	20 ± 2	MGC
Flatness	(dB)	≤ ±0.75	45~862MHz
Input impedance	(Ω)	75	RF/INPUT
RF test	(dB)	0 ± 1	

3. Link Feature

Parameter	Unit	Value	Supplement
Transmit Channel		PAL-D/60CH	NTSC/80CH
CNR	(dB)	≥50	-1dBm receive
CTB	(dB)	≤-63	
CSO	(dB)	≤-57	
SBS restrain	(dBm)	≥17	

4. General Features

Parameter	Unit	Value	Supplement
Network Management Interface		RJ45, RS232	Support I.E. & SNMP
Power Supply	(V)	90~265 city power	-48VDC optional
Power Consume	(W)	≤ 50	Single power works
Work temp.	(°C)	-5~65	
Storage temp.	(°C)	-40~85	
Operating relative humidity	(%)	5~95	
Size	(´ ´)	19×10×1.75	(W)x(D)x(H)