OT1550D-xx



Features

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



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Description

Direct modulation will lead to high laser chirp (Laser's bias current is modulated by signal and the optical spectrum shifts and shakes). Laser chip will interact with dispersion effect caused by standard single mode fiber (SMF-28), which will generate serious distortion in the place of 1550nm. This kind of distortion will become more serious with the increase of transmission distance, bandwidth and channel number.

At present, international high performance 1550nm direct modulation has no obvious performance inferior while transmitting an analog and digital multiplexing full channel signal with transmission distance <15Km or transmitting digital load with transmission distance <40Km.

ADK OT1550D 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. It can be used in FTTx (\leq 10Km) of second-grade service area (sub-headend), also can be used in WDM narrow-band multiplexing and IP/QAM.

Parameter

ltem	Specification		
Optical feature			
Optical wavelength	1548~1563nm	CATV wavelength	
	1530~1563nm	ITU standard	
Linewidth	≪1MHz	FWHM($ riangle \lambda$)	
Side mode suppression ratio	≥45dB	SMSR	
Extinction ratio	≥20dB	ХР	
Equivalent noise intensity	≪-160dB/Hz	RIN (20~1000MHz)	

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Output power	6dBm	3, 10 options
Return loss	≥55dB	
Optical fiber connector	FC/APC or SC/APC	
RF feature		
Work bandwidth	45~862MHz	
Input level	20 ± 2 dBmV	MGC
Fatness	$\leq \pm 0.75$ dB	45~862MHz
Rerun loss	>16dB	
Input impedance	75ohm	RF/INPUT
RF test	0±1dB	
Link feature		
Transmit channel	PAL-D/60CH	NTSC/80CH
CNR	≥50dB	-1dBm receive
СТВ	≪-63dB	
CSO	≪-57dB	
SBS restrain	≥17dBm	
General feature		
Network management interface	RJ45, RS232	Support IE & SNMP
Power supply	90~265V	-48V optional
Power consume	≤50W	Single power works
Work temperature	-5~65 ℃	Machine temperature
Storage temperature	-40~85 ℃	Control automatically
Relative humidity	5~95%	
Dimension	19inch,1U	

Applications

- \diamond HFC network
- ♦ PON network