OT8600

Description

OT8600 is an intensity modulation laser transmitter with different world-class low noise high output LD or DFB. Advanced technique ensure high stability, Various output power offer operator more flexibility in the fiber network configuration.

- ◆ Intensity modulation, High quality DFB.
- ◆ Microprocessor automatic control circuit.
- ◆ Pre-distortion circuit.
- ◆ Low noise, high power and excellent reliability.
- ◆ Adopt AGC/MGC circuit.
- ◆ Output optical power 4~26mW.
- ◆ VFD, 19” 1U standard framework.,RS-485 RS-232 port.

Electrical performance

Item	Unit	Specification
Optical Parameter		
Output Power	mW	4,6,8,10,12,14,16,18,20,22
Optical Path Loss	dB	7,9,10,11,11.8,12.5,13,13.6,14,14.4
Optical Wavelength	nm	1310±20
Laser Type		DFB
RF Parameter		
Frequency Range	MHz	47~862
Input Power Level	dBuV	75~85
Passband Flatness	dB	±0.75
Input Impedance	Ω	75
Return Loss	dB	≥16(47-550MHz);≥14(550-862MHz)
AGC Control	dB	±8
MGC Control	dB	±8
System Parameter		
C/CTB	dB	≥65(59 channels PAL-D)
C/CSO	dB	≥60(59 channels PAL-D)
C/N	dB	≥51(59 channels PAL-D)

C/N degradation list

Power	Optical Circuit Loss (dB)														
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4	53.8	52.8	51.8	51.0	50.1	49.2	48.2								
6				53.0	52.0	51.0	50.1	49.1	48.1						
8					52.8	51.9	51.0	50.1	49.1	48.2					
14								52.4	51.5	50.5	49.5	48.6	47.8		
16									52.0	51.0	50.1	49.1	48.1		
18									52.5	51.6	50.6	49.7	48.7	47.9	
20										51.9	51.0	50.0	49.0	48.0	
22										52.2	51.4	50.4	49.4	48.6	47.8

General

- Connectors : FC/APC or SC/APC, F connector imperial thread
- Power consumption : 30W
- Operating Temperature : 0 ~ +45 ℃
- Storage Temperature : -20 ~ +65 ℃
- Relative Humidity: max. 95% no condensation
- Dimension: 483 (W)*381 (L)*45 (H) mm

Block Diagram