

Tx1550

WT-1550-DM

COMCAST GROUP



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Application

WT-1550 -DM intelligent directly modulated optical transmitter is mainly used in 1550nm optical fiber transmission system. Adopt advanced electronic dispersion compensation technology, accurately compensate according to the actual transmission distance by 1km stepping. The maximum compensated distance up to 50km.

Performance Characteristics

- Patent pre-distortion circuit.
- The optical fiber distance is adjustable according to the actual use condition by 1km stepping.
- WT-1550 -DMII: Built-in WDM, multiplex the inserted optical signal and the main optical signal then output.
- WT-1550 -DM III: Built-in WDM and adjustable attenuator.

Technique Parameters

Item	Unit	Technique Parameters
Output optical power	mW	10*
Optical wavelength	nm	1550±10 (have to be ITU wavelength when with inter-cut function)
Dispersion compensation distance	Km	≤50
Laser type		DFB laser
Optical modulation mode		Direct optical intensity modulation
Optical connector type		FC/APC or SC/APC
Frequency range	MHz	47-862/1003
RF input level	dB μ V	75-85
Flatness in band	dB	±0.75
RF input impedance	Ω	75
Input return loss	dB	≥ 16
AGC control range	dB	±5
MGC control range	dB	0-20
Supply voltage	V	AC 110V-250V (50Hz)
Consumption	W	30
Operating temperature	°C	0 -- 45
Storage temperature	°C	-20 -- +65
Relative humidity	%	Max 95% no condensation

Special instructions: The performance parameters of this manual

according to the measuring method of GY/T 143-2000

<Specifications and methods of measurement on AM optical transmitter and receiver used in CATV systems>, and tested under the specified test conditions.

The output optical power doesn't involve optical ATT and WDM insertion loss. Optical ATT+WDM insertion loss≤ 1.5dB, optical ATT or WDM insertion loss ≤ 1dB.

