

## 1550NM DIRECTLY MODULATED TRANSMITTER WT-1550-DM



WT-1550-DM intelligent directly modulated optical transmitters adopt advanced Electronic Dispersion Compensation technology, accurately compensate according to the actual transmission distance by 1km stepping. The maximum compensation distance is up to 50km and high isolation between two RF inputs.

### Parameter:

Item	Unit	Parameter	
<b>Optical part</b>			
Optical wavelength	nm	ITU wavelength	
Laser type		Butterfly-typed DFB laser	
Optical modulation mode		Direct optical intensity modulation	
Optical connector type		FC/APC or SC/APC	
Output optical power	mW	10	The insertion loss of the VOA and CWDM is excluded.
External optical signal input	dBm	-5~10	
<b>RF part</b>			
Frequency range	MHz	47~870/1003/1218	
RF input level	dBuV	77±5	
Flatness in band	dB	±0.75	
Input return loss	dB	≥16	
RF AGC control range	dB	±5	



## TECHNICAL SPECIFICATIONS



RF MGC adjustable range	dB	0~20	
RF input isolation	dB	≥ 50	Isolation between two RF inputs
RF input test port	dB	-20±1	
Laser drive level test port	dB	-20±1	
Electronically controlled optical attenuator tolerance	dB	≤1: ATT 0-15dB	
		≤3: ATT 16-20dB	
CNR	dB	≥ 48	550MHZ 59CH analog signal 77dBuV/CH
C/CSO	dB	≥ 58	550-870MHZ 40CH digital signal 67dBuV/CH
C/CTB	dB	≥ 63	25 Km, -1dBm input
CNR	dB	≥ 46	550MHZ 59CH analog signal 77dBuV/CH
C/CSO	dB	≥ 55	550-870MHZ 40CH digital signal 67dBuV/CH
C/CTB	dB	≥ 63	50Km, -1dBm input
MER	dB	≥ 40	25 Km, -1dBm input, 96CH digital 77dBuV/CH