



Model#: DMLT-1550-ER

Description: Directly Modulated Transmitter, Extended Range, 10dBm

Date: 1/5/09

Transmitter S/N: 8020005

Test by: Brandon To

EDFA S/N: NA

1. Output Power Measurement			
Tx Only Output Power (dBm):	9.03	Stability (+/-dB):	0.05
With EDFA Output Power (dBm):	N/A	Stability (+/-dB):	N/A

Frequency Channels 77 Analog NTSC

Receiver input level: 0 dBm Frequency Tested: 325.25MHz (#48) OMI Value: 2.0%

2. RF Input Power vs. CTB Measurement					
Matrix Gen. Attenuation (dB)	RF Input Level (dBmV)	CW Carrier Level (dBmV)	Distortion Level (dBmV)	Calculated CTB	30km Fiber and EDFA
27.0	16.7	27.47	-35.10	62.57	No
				0.00	Yes

3. RF Input Power vs. CSO Measurement						
Matrix Gen. Attenuation (dB)	RF Input Level (dBmV)	CW Carrier Level (dBmV)	Distortion Level (dBmV)		Calculated CSO	30km Fiber and EDFA
27.0	16.7	27.47	-34.03	-34.36	61.67	No
					0.00	Yes

4. CNR Measurement @ Ch#48, OMI @						
CNR Measured with 100KHz RBW (dB)	Noise Floor Difference (dB)	C. F. For Noise Floor (dB)	Test System C.F. (dB)	Conversion from 100KHz to 4MHz (dB)	Finalized CNR	30km Fiber and EDFA
65.8	14.6	0.2	0.5	16.0	50.51	No
						Yes

5. Wavelength Measurement	
Laser Wavelength (nm):	1559.646

Transmitter Setting: SBS Setting 13.5 dBm  
RF Modulation Mode AGC, -1.5dB OMI

Test Instruments Used: Frequency Generator Matrix ASX-16C  
Spectrum Analyzer HP 8595E  
Optical Attenuator JDSU HA9  
Optical Power Meter Newport 2832-C  
Detector Type 818-IS  
Receiver RF Optics FOS 860A  
Wavelength Meter HP 86120B

Notes:

Testing Condition with 30km Fiber and EDFA

