



Model#: EMLT-1550-FH-06

Externally Modulated
Description: Transmitter for FTTH,
6 dBm output

Date: 9/26/08

Transmitter S/N: 8065028

Test by: Ken Corelli

1. Output Power Measurement			
Tx Only Output Power (dBm):	6.6	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
26.5	13.0	28.5	-31.80	60.30	No
26.5	13.0	28.5	-32.50	61.00	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
26.5	13.0	28.5	-37.40	-34.70	64.55	No
26.5	13.0	28.5	-37.10	-34.40	64.25	Yes

4. CNR Measurement @ Ch#48, OMI @ 2.0%						
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
67.7	15.0	0.1	0.5	16.0	52.28	No
64.1	18.9	0.1	0.5	16.0	48.68	Yes

5. Wavelength Measurement	
Laser Wavelength (nm):	1552.999

Transmitter Setting: SBS Setting 13.5 dBm
RF Modulation Mode AGC, +1.0dB 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: Adjustable Wavelength

Testing Condition with 30km Fiber and EDFA

