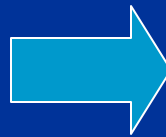


# Cascaded Performance Analysis of CWDM based Analog Fiber Optic System

Optical I/P to ORx = -5 dBm

## From Front end

For SNR  $\geq 20$  dB/400 MHz  
Input power level  
-48 to -6 dBm



Parameters	Measured
Gain in dB	20
Noise Figure in dB	14
I/P 1 dB Compression point in dBm	-6
3 <sup>rd</sup> order intercept point in dBm	4
EIN of link in dBm/Hz	-159
Compression Dynamic Range dB/Hz	147.77
Compression Dynamic Range dB/400 MHz	61.77
Estimated Spurious Free Dynamic Range dB/Hz <sup>2/3</sup>	108.67
Estimated Spurious Free Dynamic Range dB/400 MHz <sup>2/3</sup>	51.32
Head room for 20 dB SNR/400MHz	42

## To Back end

-28 to 14 dBm

