

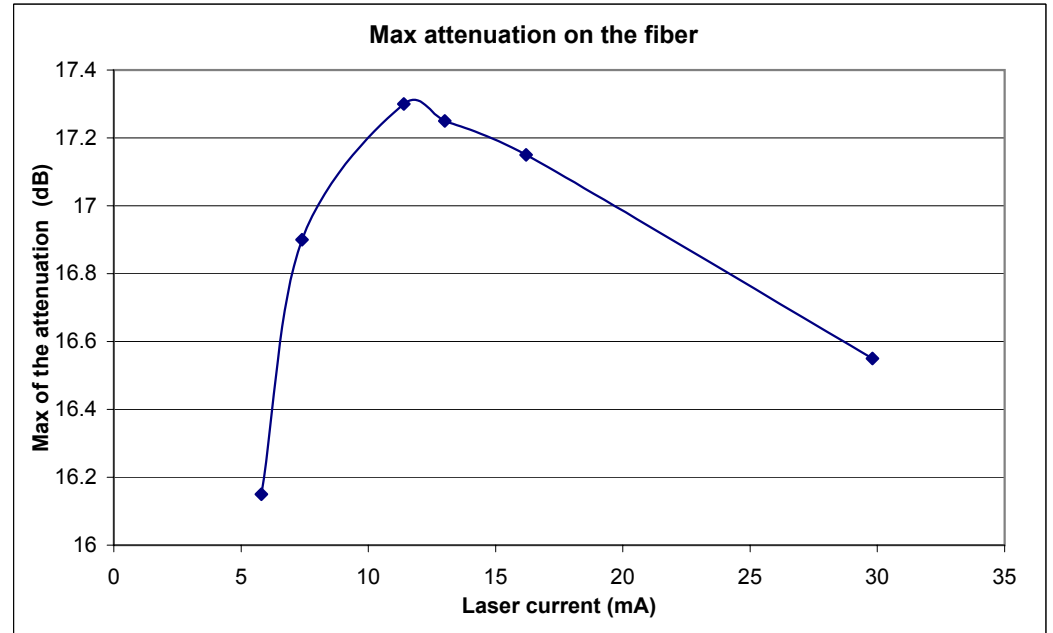
MESURE OF THE MAXIMUM ATTENUATION POSSIBLE ON THE FIBER WITH NEOPTTEK PHOTODIODE

value to set on the I2C	Equivalent laser current (mA)	Max attenuation (dB)
12	5.8	16.15
16	7.4	16.9
26	11.4	17.3
30	13	17.25
38	16.2	17.15
72	29.8	16.55

Remarques :

The photodiode has an build in automatic gain control (AGC) which stabilize the outupt voltage, so we don't see much difference in the max attenuation values regarding the increase of the power. The eyes diagrams shown also a better shape of the signals around 11mA

At high current, the photodiode saturate and the sensitivity decrease.



Setup current (mA)	Power (dBm)	Power (uW)
5.8	-9.05	125
7.4	-8.08	155
11.4	-5.4	288.3
13	-4.6	347
16.2	-3.4	458
29.8	-0.52	885.6

