

λ -dependent Output power in L-Band DFB LD & Market Trend on APD Rx Cost

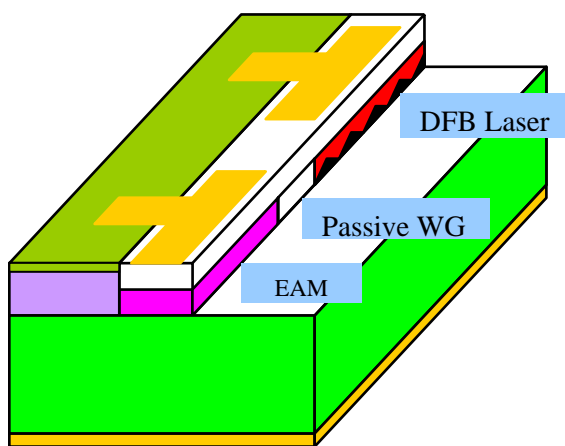
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Slope efficiency vs. Wavelength for DFB Laser Section

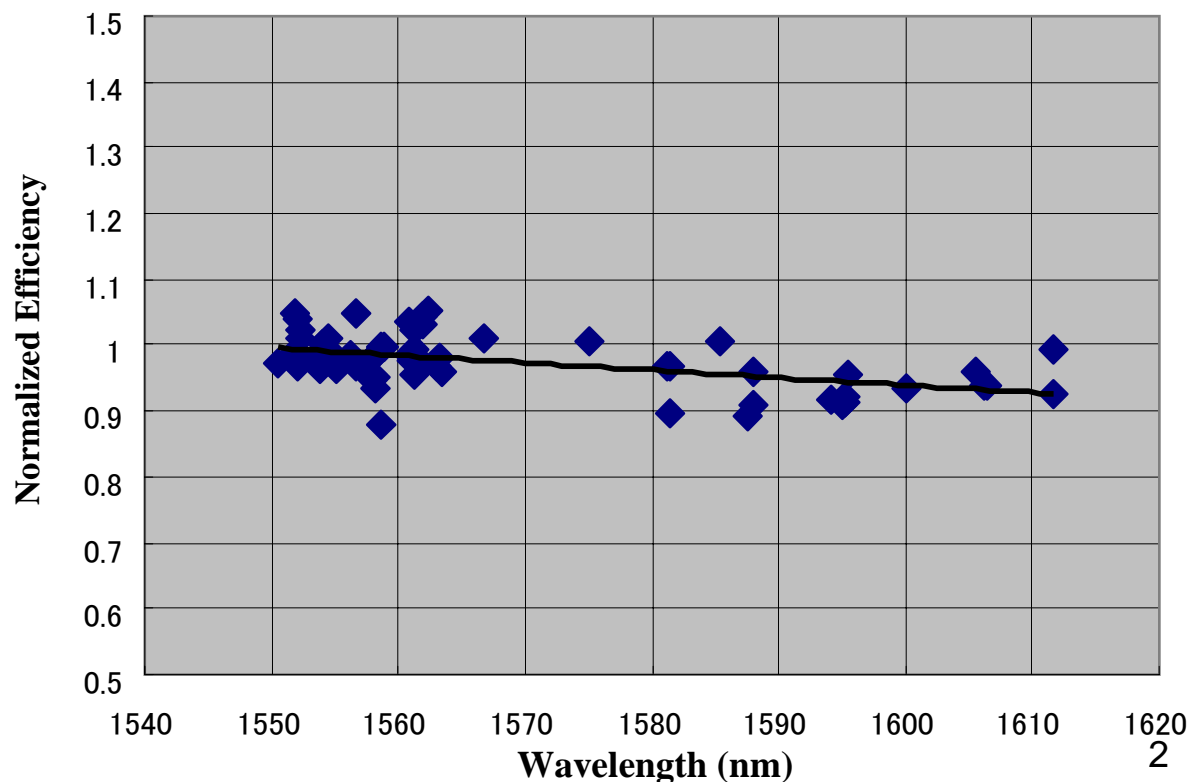
Output power degradation from 1550nm to 1577nm or 1591nm is expected less than 10%(0.5dB) from the experimental data for DFB-LD's distribution of slope efficiency.

As output power at 1571nm of 5dBm typ. was demonstrated, 4.5dBm (10% down) from 1571nm can be achievable. --- Conservative estimation ---

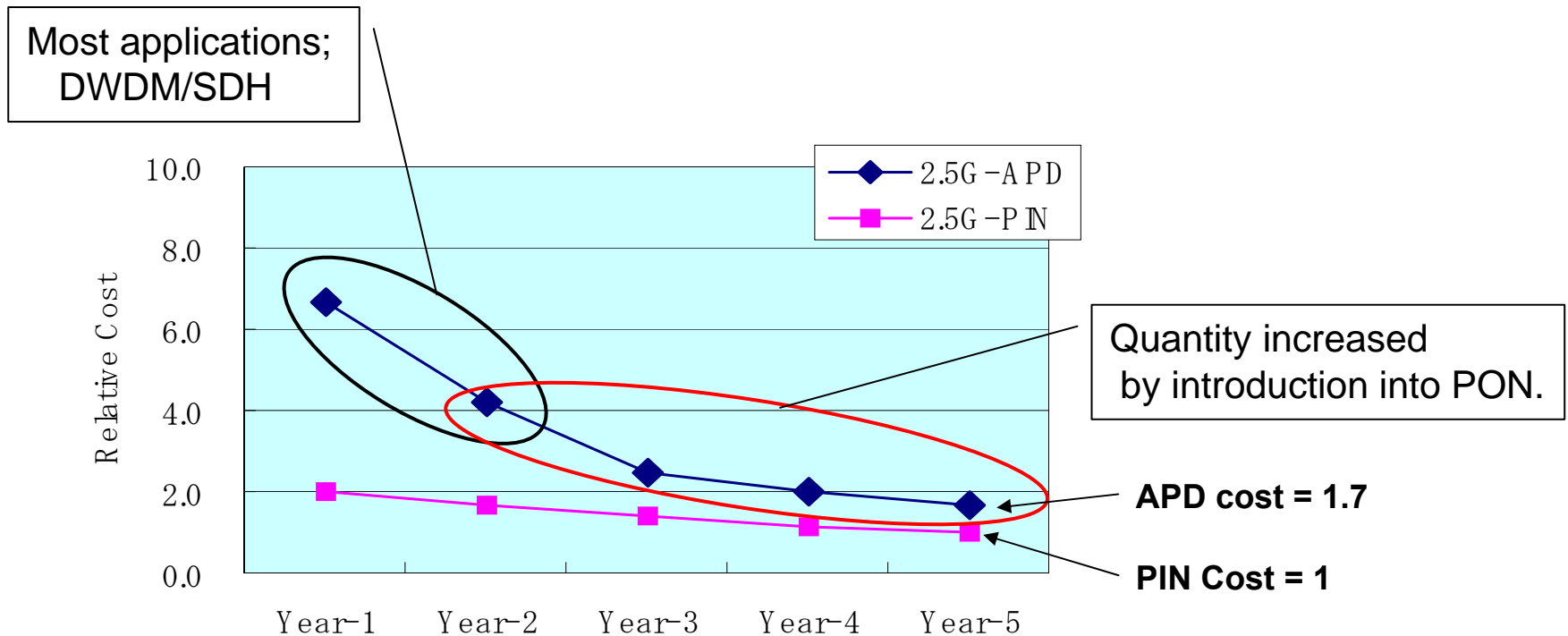


EML Diagram

Efficiency vs. Wavelength



APD Cost : History of 2.5G APD



Similar cost reduction can be expected for 10G-APD, if volume comes by introduction into PON.
Estimated cost ratio APD/PIN = 2.0 (volume >500k/yr).