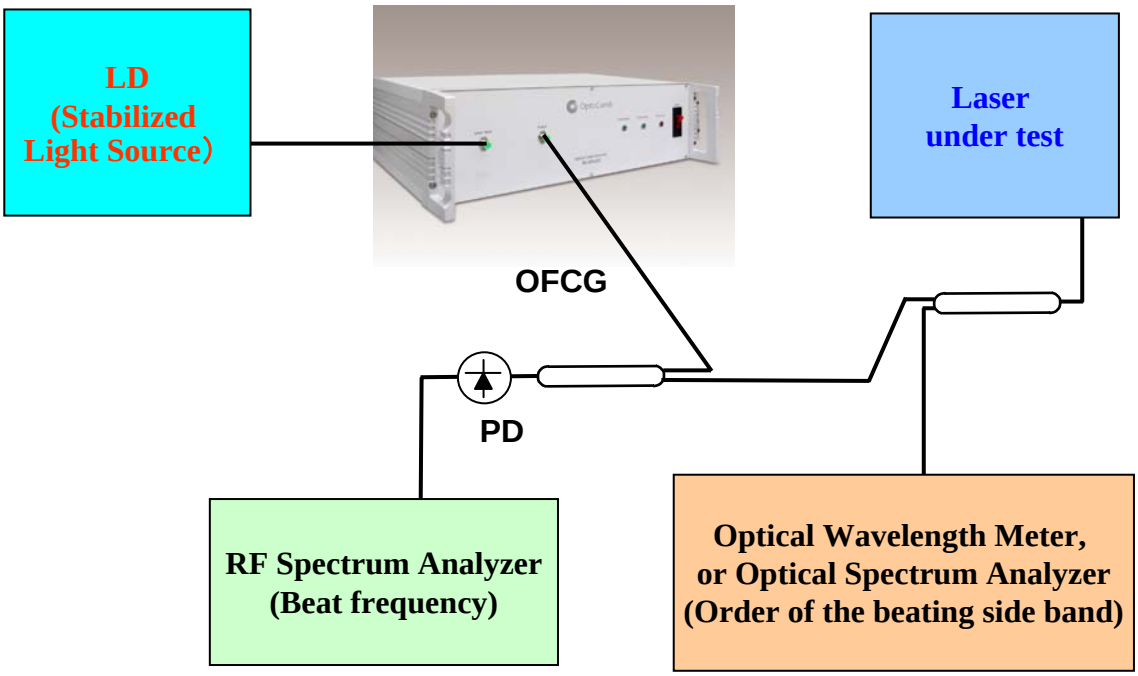
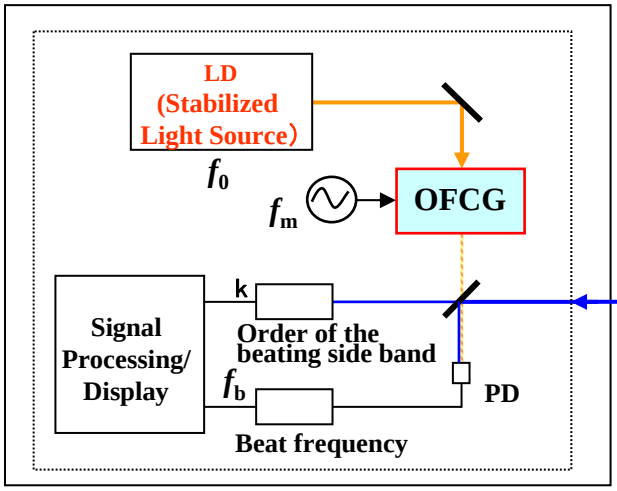
OptoComb

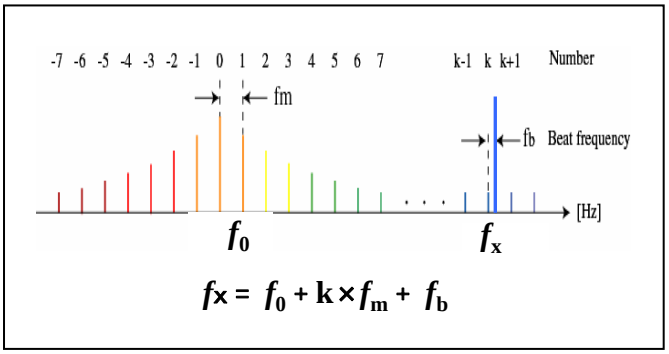
Absolute Optical Frequency Measurement by Optical Frequency Comb

Optical Frequency Comb Generator (OFCG) generates a comb-like series of spectrum, or optical frequency comb with accurate spacing. The comb can be used to the reference of frequency calibration and measurement for tunable lasers.



◆ Principle of the measurement





◆ Principle

Optical comb of f_m spacing is generated from the input laser of frequency f_0 . The laser-under-test with frequency f_x generates beat signal of frequency f_b with the k-th order of side band of the comb. The frequency f_x is calculated by the equation $f_x = f_0 + k \times f_m + f_b$

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