

# 12. Resonator

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Operation principles and designs are addressed in several types of resonators. Also, the class includes an important parameter, Q factor.

12.1 Transmission line resonator

12.2 Ring resonator

12.3 Application to a wavelength meter

12.4 Q factor

# 13.Multi/Demultiplexer

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13.1 Equivalent circuit of a resonator

13.2 Band-pass filter

13.3 Band-stop (band-reject) filter

13.4 Demultiplexer (mainly used in lightwave circuit)

    Arrayed waveguide grating (AWG)

    Mach-Zehnder interferometer