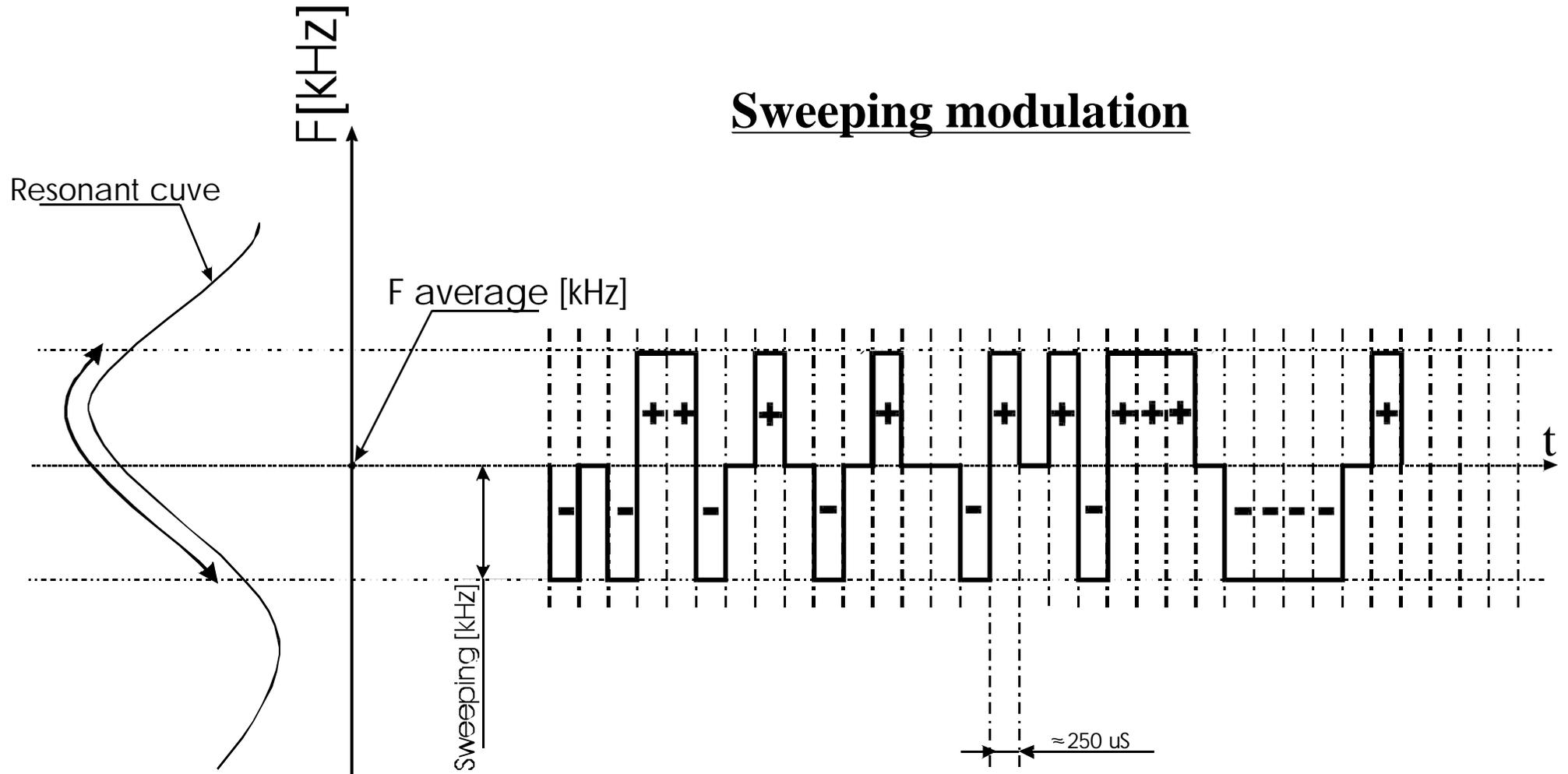


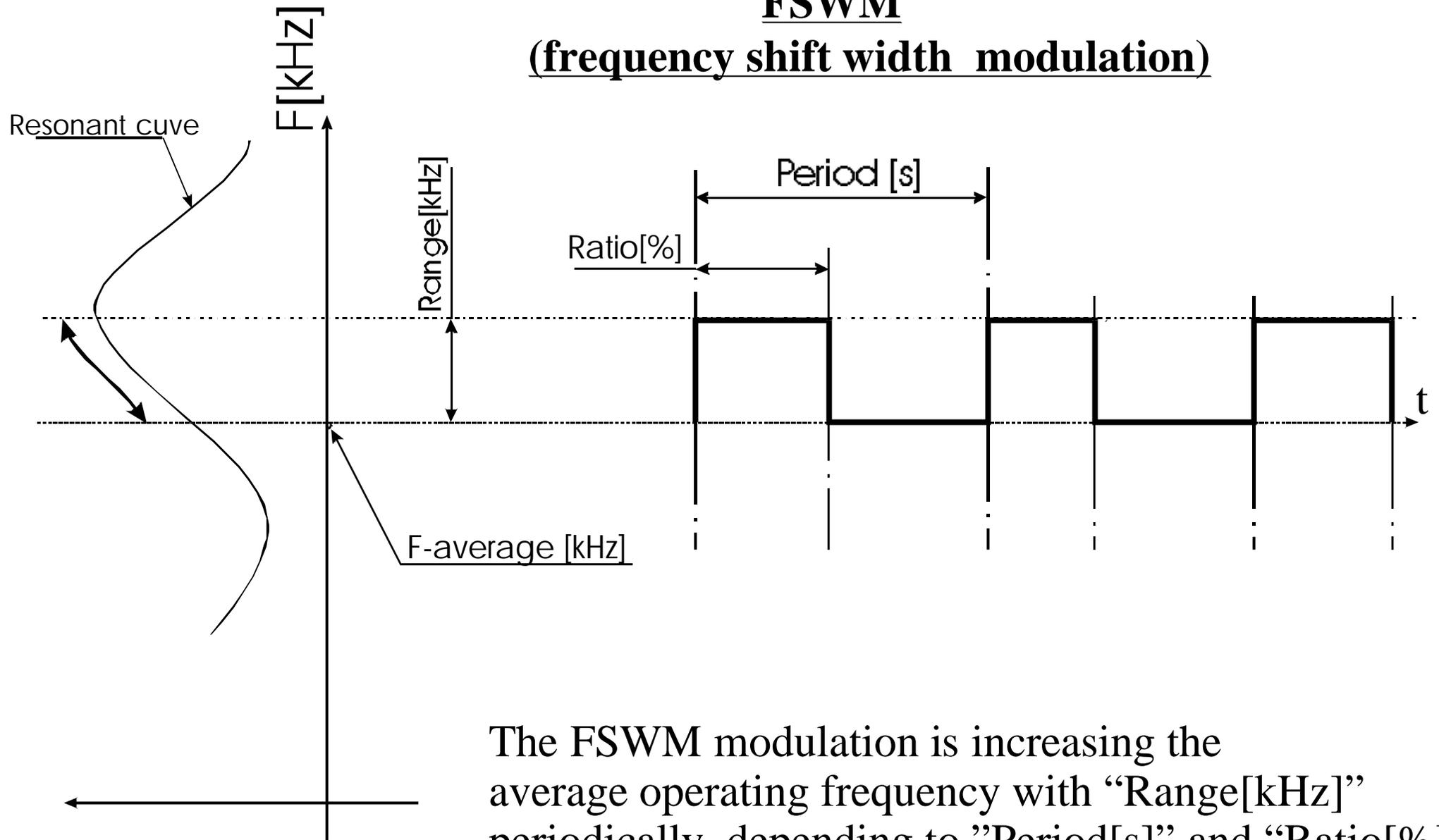
Sweeping modulation



The sweeping modulation is increasing or decreasing (randomly) the average operating frequency.

$$F_{\text{operating}} [\text{kHz}] = F_{\text{average}} [\text{kHz}] + /- \text{Sweeping} [\text{kHz}]$$

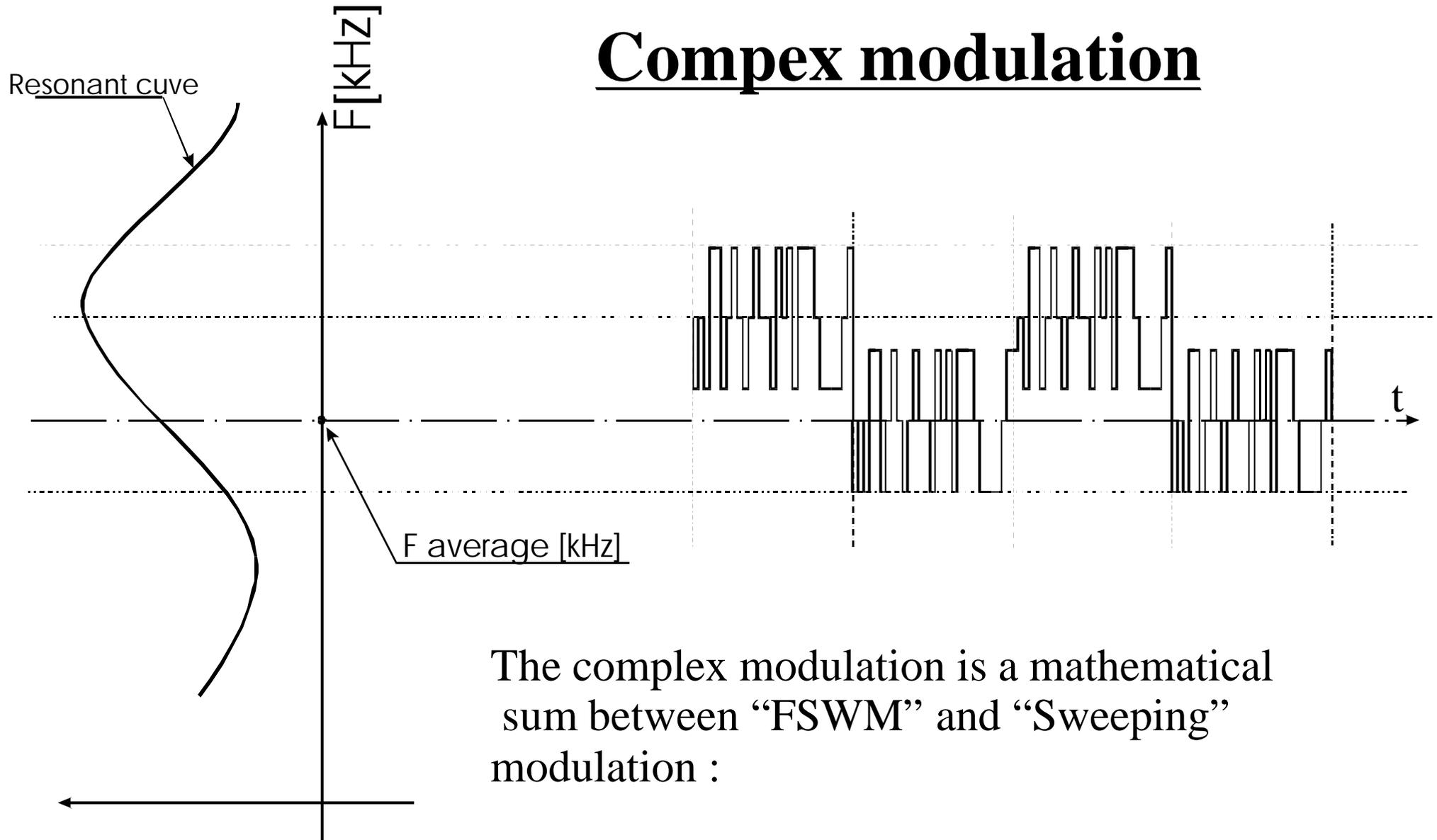
FSWM (frequency shift width modulation)



The FSWM modulation is increasing the average operating frequency with “ $Range$ [kHz]” periodically, depending to “ $Period$ [s]” and “ $Ratio$ [%]”.

$$F_{\text{operating}} \text{ [kHz]} = F_{\text{average}} \text{ [kHz]} + Range \text{ [kHz]}$$

Complex modulation



The complex modulation is a mathematical sum between “FSWM” and “Sweeping” modulation :

$$F_{\text{operating}} [\text{kHz}] = F_{\text{average}} [\text{kHz}] + \text{FSWMRange} [\text{kHz}] + /- \text{Sweeping Range} [\text{kHz}]$$