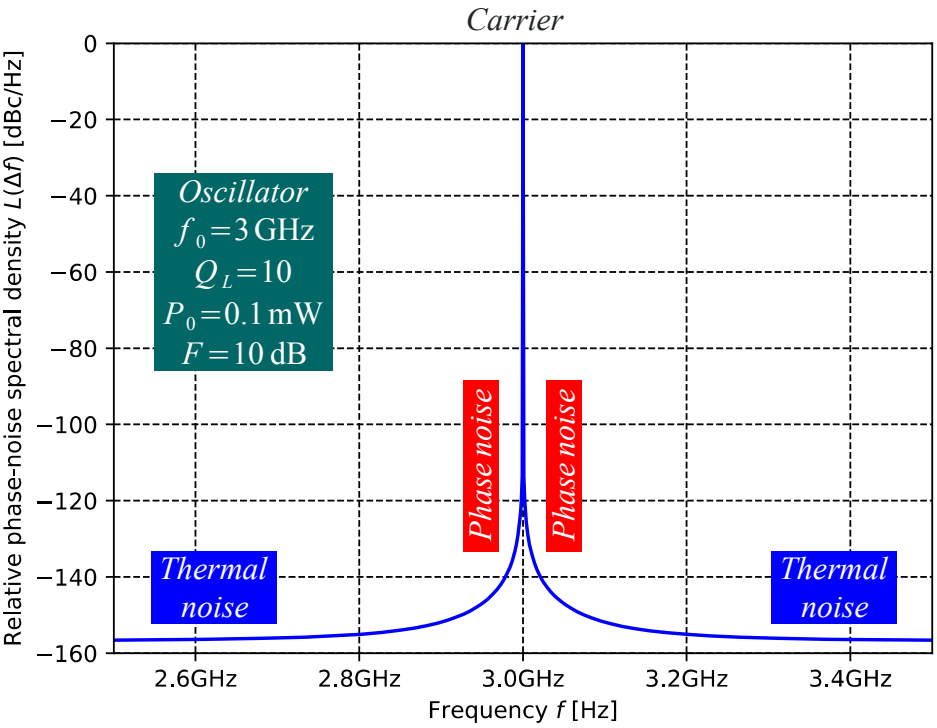
Carrier
Oscillator
$f_0 = 3$ GHz
$Q_L = 10$
$P_0 = 0.1$ mW
$F = 10$ dB
Phase noise
Phase noise
Thermal noise
Thermal noise
0
−20
−40
−60
−80
−100
−120
−140
−160
Relative phase-noise spectral density $L(\Delta f)$ [dBc/Hz]
2.6GHz
2.8GHz
3.0GHz
3.2GHz
3.4GHz
Frequency f [Hz]