

Special Problem 3.C-3

A mixer with a conversion loss of **6 dB** has a signal at its RF port of **-15 dBm**.

What is the **power** of the signal at the **IF port**, provided that the LO power equals the mixer drive power?

Say the LO power now drops 10 dB below the mixer drive power.

What is the power of the IF signal **now** (where $P_{RF} = -15$ dBm, as before) ?