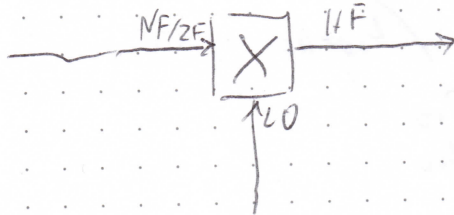


HF - Mischer

Aufwärtsmischen



NF... Niederfrequenz

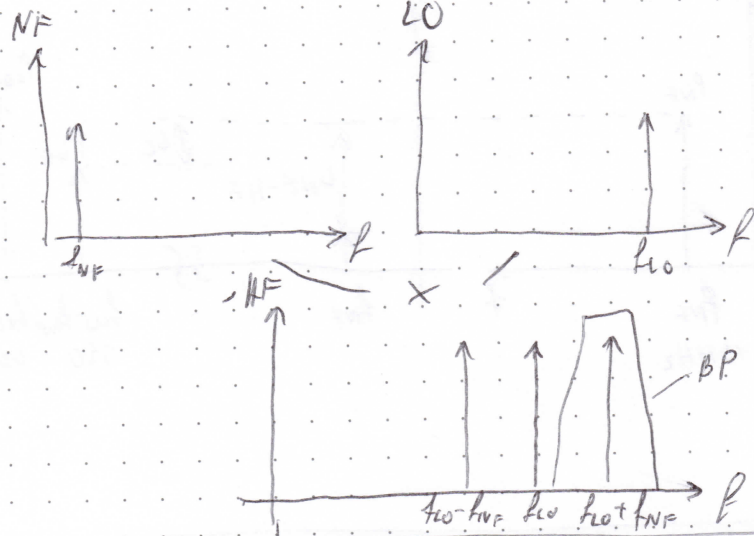
ZF... Zwischenfrequenz

HF... Hochfrequenz

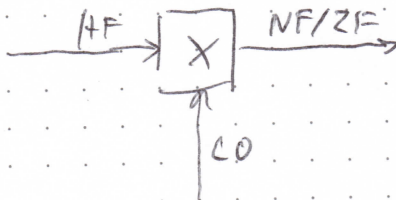
LO... lokaler Oszillator

Sender:

$$f_{HF} = f_{LO} \pm f_{NF}$$



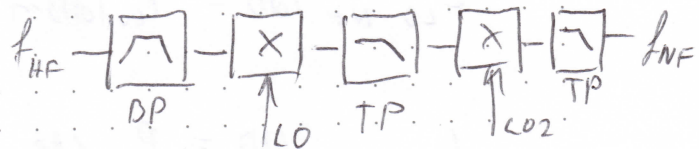
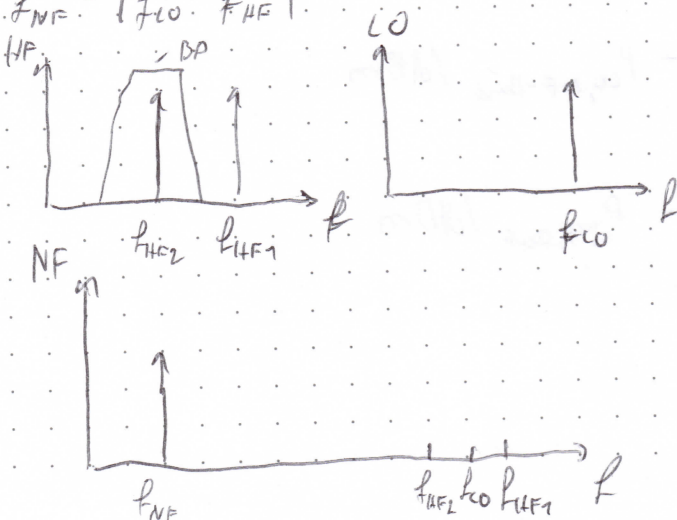
Abwärtsmischen



Die Spiegelfrequenz muss mit einem BP weggelassen werden

Empfänger:

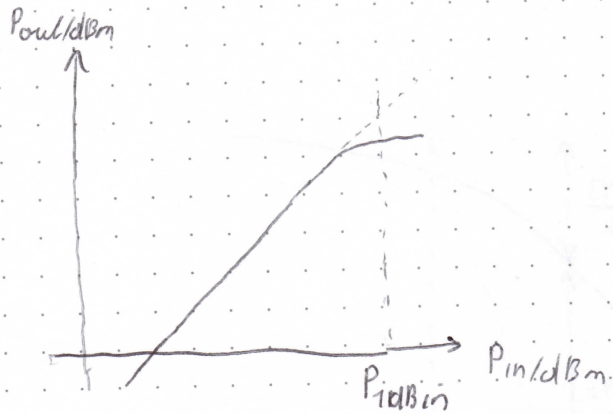
$$f_{NF} = |f_{LO} - f_{HF}|$$



2-stufiger Empfänger

Heterodynempfänger

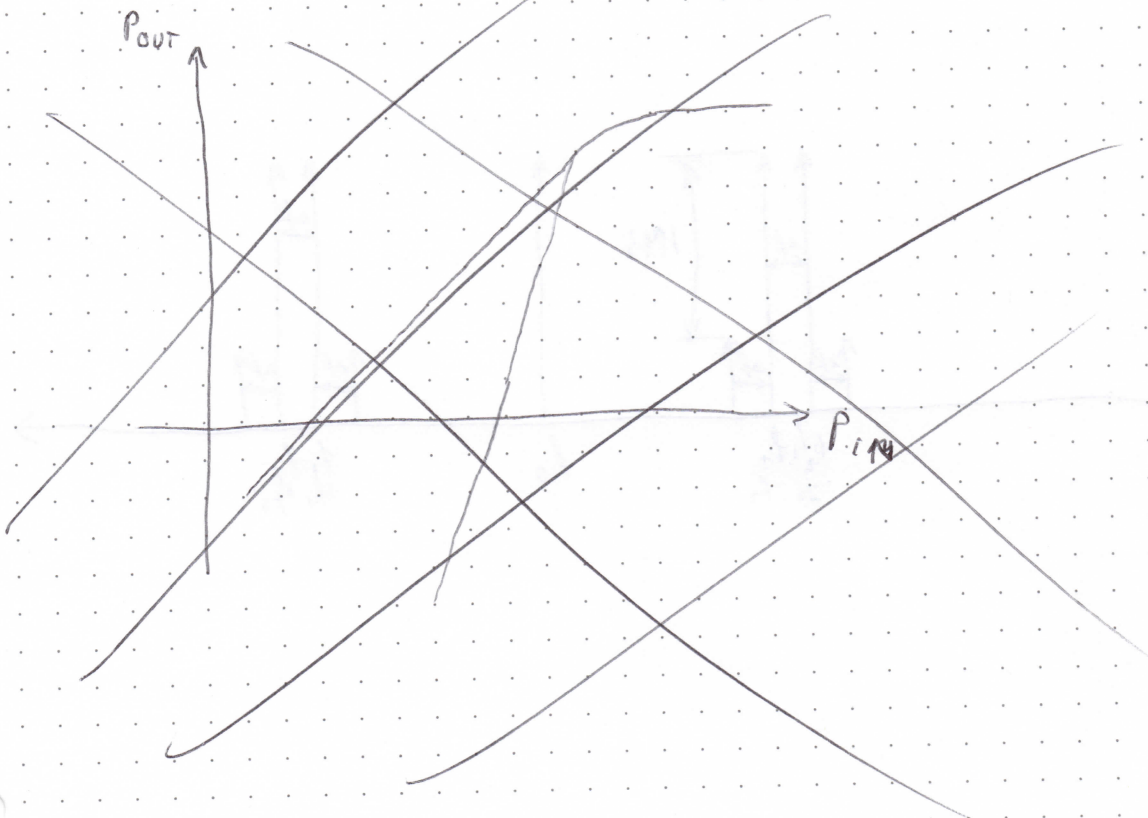
1dB-Kompressionspunkt



Der 1dB-Kompressionspunkt wird immer am Eingang angegeben.

$$P_{1dBout} = P_{1dBin} - L_c - 1dB$$

Intermodulation



Intermodulation

