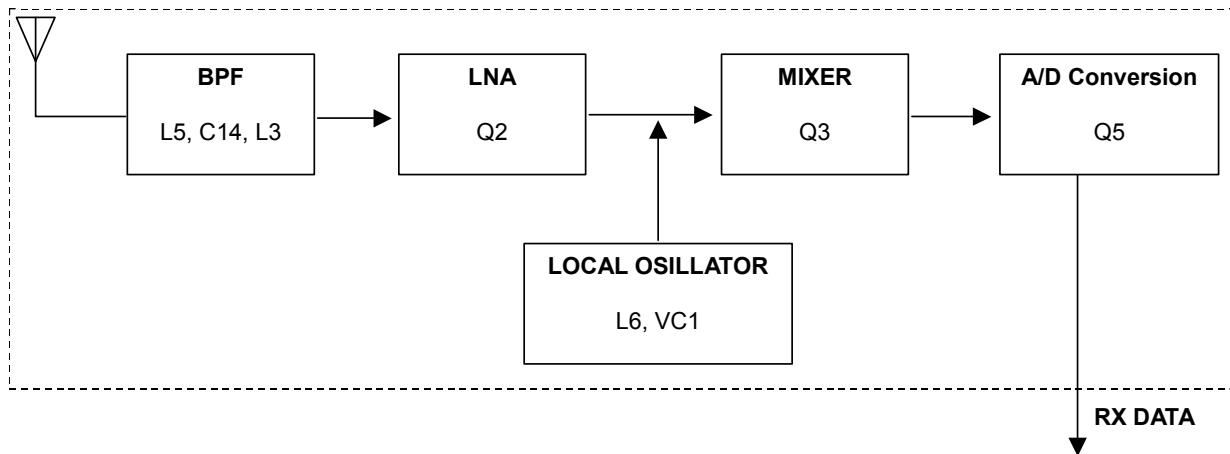


## Operational Description (Receiver function)



### 1) BPF (Band Pass Filter)

L5, C14, L3 is Band Pass Filter. It filters out desired signal and delivers it to the LNA

### 2) LNA (Low Noise Amplifier)

The LNA is constructed with two stages of amplifiers and filter (TR Q2, Q4) for high rejection ratio of alternate channel and spurious. The Signal passed from the saw filter is fed to the LNA. Then, the LNA amplifies and filters out the desired signal and delivers it to the op amp

### 3) LC Oscillator

A balanced oscillator configuration is used with a capacitor, VC1 and inductor, L6. The frequency of the oscillator is determined by the VC1 and L6

### 4) Mixer (Q3)

RF Signal 315.0MHz – LO 304.3MHz -> 10.7 MHz (down conversion)

### 5) A/D Conversion part

The Q5 is A/D conversion part. It converting analog signal to digital signal