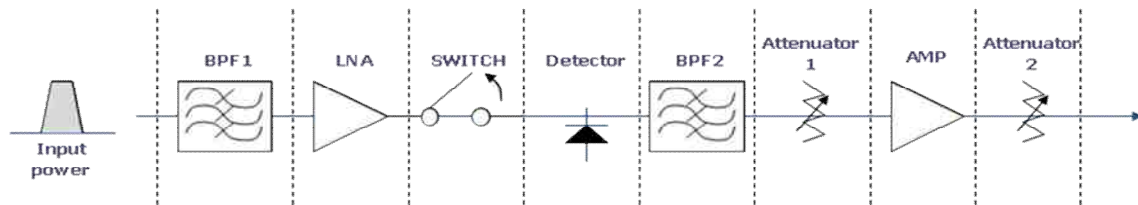# Block diagram for preventing saturation and linear operation

- If the outside signal of operating band comes into the antenna, the BPF1 reject these signal.
- The LNA use components for very high IP3 and P1dB for keeping linearity in spite of getting any strong input signal.
- If the input signal is more than rated input signal, 0 dBm the AGC (Automatic Gain Control) function automatically operated.
- The switch in above figure will be closed for making path to ground, if the LNA has more than rated input, 0 dBm. This function makes the device has linear operation and prevent from the operation of saturation.