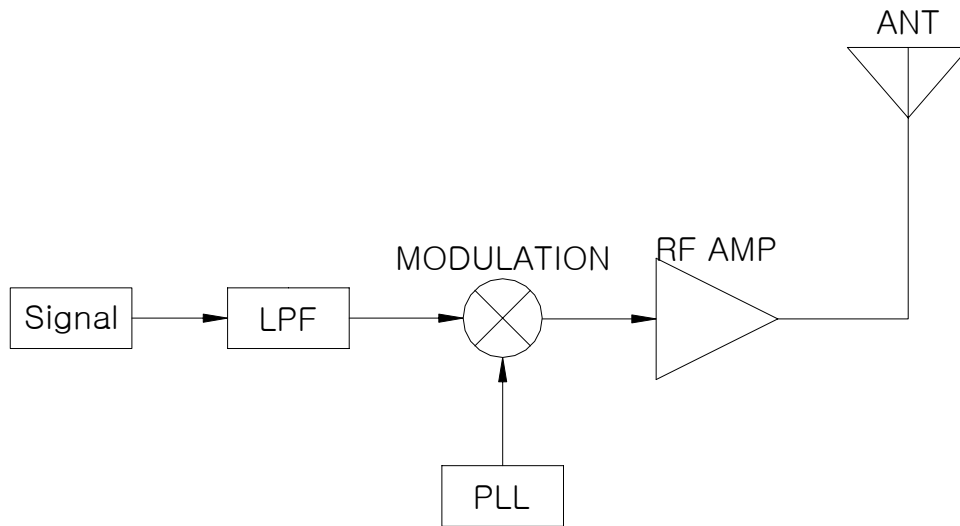


FM Transmitter Function



The FM transmitter radiates FM wave on the air by modulating the carrier signal with a composite signal.

1) SIGNAL : Signal Input

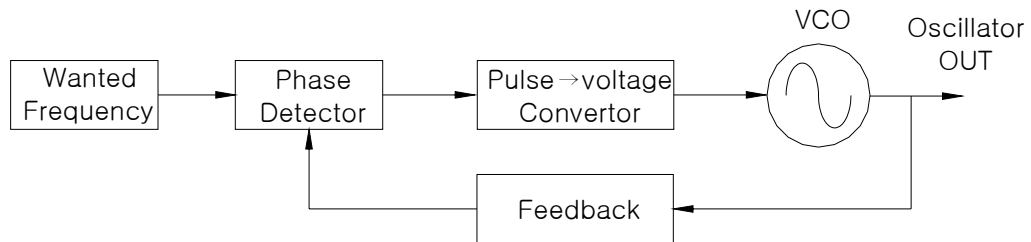
2) LPF : LOW PASS FILTER – HIGH FREQUENCY CUTOFF

(Cutoff frequency : 15KHz)

3) MODULATION : Stereo Modulator

- The stereo modulator generates a composite signals consists of pilot signal from a 38kHz oscillator.

4) PLL



- (1) Output frequency result receives feedback.
- (2) Compare with frequency value that must appear originally in Phase Detector.
- (3) Have created pulse equivalent to difference of two frequencies.
- (4) Put in input of VCO changing the cost to proper voltage value.

※ VCO (Voltage Controlled Oscillator)

– VCO is consisted of colpitts oscillator circuit.

※ Carrier signal band : 89.0MHz ~ 91.9MHz

(Step – 0.1MHz ; channel – 30ch)

5) RF AMP

– Amplify carrier signal that composite loads.