

De-Emphasis

The audio signal which has been FM demodulate in the IC5 supplies to R46, C84 which function as the De-emphasis.

Weather receiver Voltage Control Oscillator (VCO)

The VCO of oscillates 161.2MHz ~ 162.825MHz under weather receiver mode.

The VCO consists of the colpitt oscillator of the Q12.

The VCO is controlled by the IC3 PLL IC in order to oscillate the accurate frequency. The output frequency of the VCO is supplied to the IC3 PLL IC immediately. At the IC3, 10.250MHz by the X2 is compared to the output frequency of the VCO. The VCO is controlled through the loop filter consisted of he R45, R58 and the C76 in order to oscillate the stable frequency wanted for the radio. The VCO controlled voltage which has passed the loop filter supplies to the D8 variator diode, and the VCO and oscillate the PLL programmed frequency by the capacity variation in the D8.