

RH601T DESCRIPTION

AUDIO

Audio from the microphone is coupled through C36.C37 & R46 applied to the audio amplifier stage(1/2 IC3) .

Output from pin 7 of IC1 applied to IC2 of compand.

Output from pin 9 of IC2 is through 53 & R44 applied to IC1 of pre amp.

Output from pin 1 of IC1 is through R36 & C62 & SVR1 applied to OSC&VCO stage

VCO

The stage consist of varcap D8 & OSC Q8.

Q8 is a colpitts oscillator .The frequency ranges from 197.750 to 214.750 MHZ and the frequency is control by PLL circuit (IC5.IC7.SW2.SW3).

The frequency modulation was control by the audio signal applied to the D9.

PRE AMP

The VCO output is coupled through C27.26.28 to the base of Q7.

L6 & C11.C10 is tuned to 207MHZ.

The output of Q3 through R26 applied to Q6

FINAL AMP

The output of Q8 is coupled through L11 to bias of Q9&Q10.

L4 & L5. C6.C5 is tuned to 207 MHZ.

Low pass filter is consist of L3.L2 .C3.C2 to decrease spurious of RF carries.

The RF signal is output from Q5 through low pass filter applied to the antenna(microphone).