

HT-300 / BP-300B Transmitter Circuit Description

Power supply for the whole electric circuit is offered by two group voltage. One is 5V DC voltage generated by electric circuit (U2, Q3, D5) after battery 3V voltage is sent to this circuit for voltage-step up through power switch(Q4, Q15). The other one is 3.3V voltage generated by voltage regulator (U1).

Microphone audio signal enhanced by prime amplifier (U2) is sent to gain dynamic amplifier (U1,U7) for processing. After processed, the signal is sent to VCO (D7) through low-pass filter (U3) and modulated with PLL(U6), PLL frequency standard(X2-8MHz,Q6), local oscillation signal generated by low-pass filter(R78,C68,C67,R81) and VCO(D6,Q8,Q9). Then audio RF signal after modulated is sent to buffer amplifier (Q7,Q14) and power amplifier(Q13) for amplifying. After amplified, it is sent to low-pass filter(L9,L10,C87,C88) to filter the high harmonic and output to antenna for transmission.

MCU(U5), switch S1(POWER) and Infrared receiving module(IR1) is an operation which receives Infrared synchronized signal from receiver, and controls LCD display. MCU(U5) controls PLL(U6) working frequency according to the frequency data operated. Meanwhile, MCU(U5) will test battery voltage and auto-cut off power switch(Q4,Q15) when the voltage is over-low.



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