

# Circuit Description

The wireless speaker, U4 EM78P153 is a master controller, U1 SA 2111 is radiogram IC, U2 is PLL IC, U3 UTC31101 is audio frequency compress expand IC. RF radio-frequency signal through CF2 band-pass the filter and transmit to Q2 to blow up the lower-noise, then have mixing signal to create the 10.7M intermediate frequency signal. Through CFI filter, Q4 intermediate frequency will enlarge, which the osc is 7.6MHz; CF3 intermediate frequency will filter, then send to U1 to have FM demodulation. After demodulation will have two way audio frequency signal(left & right) through Q7 Q8 Q5 Q6 to enlarge the filter separately, then sent to U3 to have compress and expands, the last step will through Q11 Q12 Q9 Q10 enlarge the extent and output transmission. Q1 C2 C1 C4 D1 U2 composed the PLL circuit to have the signal, then the receiver RF signal will create the intermediate frequency signal.