

Technical Description (Revision 1.0)

JW160 900MHz Headphone (Transmitter)

Initial conditions:

1. Turn off the power supply then set up all connections to transmitter.
2. The transmitter can be connected to audio source such as CD player, MD player, LD player, Tuner, Cassette player or Pre-amplifier.

Operation:

1. Put an audio source to the input terminal (L/R) and adjust the input sensitivity by VR305 to get a suitable listening level. The signal will be enhanced by pre-emphasis network then to Pin-14 (L-channel) & Pin-1 (R-channel) of NJM2035 Stereo Modulator. The Stereo Modulator will generate two signals (multiplexing & pilot) to modulator with the desired VCO voltage.
2. Channel A (913.5MHz) and channel B (914.5MHz) will be selected for desired VCO.
3. Two signals mixed then through modulator to Q11 buffer AMP for RF transmission.
4. The transmitting frequency is carried out through a mono-poled antenna after Q11 for the transmission.
5. The modulation indicator is presented by a sensitive amplifier (Q5/Q6), voltage doubler (D9~12), hysteresis network (Q7/Q8) & emitter follower Q9 when input level is overdue modulation.

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