

9. CIRCUIT DESCRIPTION

1. TRANAMITTER SECTION

Fm modulated output from the Vco which is transmitting frequency is fed to an 3- stage amplifier followed by the antenna matching circuit and low pass filter and transfer to the antenna.

1-1. To turn the power amp on, press and hold on the ptt switch.

Cpu controls Q3(tx vco power supply) and Q503 power amplifier.

Power amp is broad band 3-stage transistor amplifier.

1-2. Mic amp. Pre-emphasis and audio amplifier

U4- c is mic amplifier and pre-emphasis amp (6db/oct)

U4-d is audio limiter by bias voltage to protect over deviation.

1-3. Low pass filter

U4-d is low pass filter at 2.7khz ~ 20 khz. This is for eliminating the unwanted high audio frequency modulation to meet the occupied band width.

2. RECEIVER SECTION

2-1. Signal from antenna is amplifier via Q1 and filtered F1 saw filter.

2-2. Amplified signal is mixed in Q2 Tr.

2-3. U2 If Ic demodulates audio signal, and Audio outputs Pin 9.

2-4. Audi signal amplified and filtered by U4-a,

2-5. Finally, recovered audio is driven by U3.(SPK AMP)

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