RS952 Circuit Description

912.5MHz high frequency signal (normally 1~3 MHz bandwidth) received by antenna is fed to input network of UHF module (RS952U) to filter and be amplified by RF amplifier Q101. The amplified signal and local oscillation signal is mixed in Q102 and its peripheral components. The local oscillation signal is generated by Q103, a VCO circuit, and its oscillation frequency is controlled by its bias voltage that is determined by a 'Auto tuning circuit'. The auto tuning circuit includes IC3 and its peripheral components, its tuning is controlled by both auto stereo detecting circuit and manual switch SW2. The oscillation frequency is set to 970.5MHz with 1~3MHz bandwidth or a little wider, so the mixed output of UHF is 58MHz IF signal.

The IF signal is fed to IC1 and its peripheral components, this circuit includes amplifier, second local oscillation, mixing circuit, filter, and stereo signal separate circuit so its output is two way stereo audio signal.

After de-emphasizing and filtering, the audio signal enters two way audio amplifier IC (TDA2822). Through capacity C28 and C29, the amplified signals are sent to speakers. The voice level of speakers can be adjusted by tuning the volume that changes the AF input of amplifier.

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