

RS942 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 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 can be adjusted through tuning volume VR1. 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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Prepared/Drawn by:	Description: ALIGNMENT PROCEDURE				
Checked by:					
Approved by:	Model No.:				
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