



CIRCUIT DESCRIPTION OF 39765, 39705, 39605, 39626

1. RF MODULE

1) RX PART

The receiver front-end contains a band pass filter, a RF low noise amplifier, a active transistor mixer, a monolithic crystal filter and a 10.7MHz "IF" amplifier.

The font-end receivers RF signal from the antenna. The RF signal frequency range is 902.025—903.975MHz for Handset and 926.025—927.975MHz for Base unit and then passes through RF AMP (Q301, Q801).

After mixed with the first local frequency from voltage controlled oscillator, the signal become IF signal and is amplified on the IF AMP transistor (Q803, Q303), and then pass through the ceramic filter (10.7MHz), finally enter by the FM IF (intermediate frequency) IC. The IF signal is mixed in the FM IF IC (MC3361) again, and then pass through the ceramic filter (455KHz). Finally the output signal in the FM IF IC streams from the AF-OUT terminal of the connector.

2) TX PART

The signal is made to a portable enter by the AF-IN terminal of the connector.

The signal sends the MOD terminal of the TX VCO.

The signal is mixed in the TX VCO mixing the RF signal, the RF signal adjust by the VC301, VC801.

The RF signal enters by the transmission power AMP transistor.

Enter by the band pass filter.

RF signal passes through the band pass filter, towards the ANT. The last transmission RF signal is 926.025—927.975MHz for Handset and 902.025—903.975MHz for Base Unit.

2. HANDSET MAIN

The demodulated signal, resulting from Double Super Heterodyne system, which appears at output Pin No.9 of IC802 (MC3361) is connected to Pin No.16 of IC504 (KA8507). The audio output from Pin No.19 of u802 is finally amplified by IC507 (KA8602B) and ac coupled to the receiver unit the HAC compatibility.

The demodulated date code from Pin No. 9 of IC802 and it is connected to (DATA IN) Pin No. 13 of IC506 (MCU).

Voice signal from C-MIC is coupled to Pin No.8 of IC504(8507). The voice signal is compressed by IC504, and output Pin No.1 is connected to RF board for modulation.

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Pin No.12 of IC506 (MCU) is the output part for data code that should be transmitted to due base unit.

During the charging, it is detected by Pin No.11 of IC506.

Key board, operation is monitored by Pin No.14, 24-26, 52-57, of IC506.

Key Tone and the ringing from Pin No.31 of IC506 drives the BUZZER.

3. BASE MAIN

The demodulated signal from Pin No.9 of IC802 (MC3361) is sent to IC3 (8507) Pin No.15 to expansion, The expanded signal amplified by IC8A and sent to the telephone line.

Relay controlling is done by Pin No.43 of IC6 (MCU).

Ring signal is detected by IC6 of Pin No.20, and result from a data code to the handset.

Dial of DTMF is generated by IC3 of Pin No.11. This signal output through the base of IC8A to tel-line.

When the handset is placed on the base cradle, the charging is detected by Pin No.13 of IC6 sends data codes to handset for security code setting.

The power to the base unit is supplied by IC4 (5V REGULATOR IC).

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USA 40 Channel Frequency table (Model : New 39705)

- * Channel Space : 50KHz
- * IF : 10.7MHz
- * TCXO : 11.15MHz
- * Ref. Freq. Of PLL : 25kHz

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| CH | Base (MHz) | | Handy (MHz) | |
|----|------------|---------|-------------|---------|
| | Tx | Local | Tx | Local |
| 1 | 902.025 | 915.325 | 926.025 | 912.725 |
| 2 | 902.075 | 915.375 | 926.075 | 912.775 |
| 3 | 902.125 | 915.425 | 926.125 | 912.825 |
| 4 | 902.175 | 915.475 | 926.175 | 912.875 |
| 5 | 902.225 | 915.525 | 926.225 | 912.925 |
| 6 | 902.275 | 915.575 | 926.275 | 912.975 |
| 7 | 902.325 | 915.625 | 926.325 | 913.025 |
| 8 | 902.375 | 915.675 | 926.375 | 913.075 |
| 9 | 902.425 | 915.725 | 926.425 | 913.125 |
| 10 | 902.475 | 915.775 | 926.475 | 913.175 |
| 11 | 902.525 | 915.825 | 926.525 | 913.225 |
| 12 | 902.575 | 915.875 | 926.575 | 913.275 |
| 13 | 902.625 | 915.925 | 926.625 | 913.325 |
| 14 | 902.675 | 915.975 | 926.675 | 913.375 |
| 15 | 902.725 | 916.025 | 926.725 | 913.425 |
| 16 | 902.775 | 916.075 | 926.775 | 913.475 |
| 17 | 902.825 | 916.125 | 926.825 | 913.525 |
| 18 | 902.875 | 916.175 | 926.875 | 913.575 |
| 19 | 902.925 | 916.225 | 926.925 | 913.625 |
| 20 | 902.975 | 916.275 | 926.975 | 913.675 |
| 21 | 903.025 | 916.325 | 927.025 | 913.725 |
| 22 | 903.075 | 916.375 | 927.075 | 913.775 |
| 23 | 903.125 | 916.425 | 927.125 | 913.825 |
| 24 | 903.175 | 916.475 | 927.175 | 913.875 |
| 25 | 903.225 | 916.525 | 927.225 | 913.925 |
| 26 | 903.275 | 916.575 | 927.275 | 913.975 |
| 27 | 903.325 | 916.625 | 927.325 | 914.025 |
| 28 | 903.375 | 916.675 | 927.375 | 914.075 |
| 29 | 903.425 | 916.725 | 927.425 | 914.125 |
| 30 | 903.475 | 916.775 | 927.475 | 914.175 |
| 31 | 903.525 | 916.825 | 927.525 | 914.225 |
| 32 | 903.575 | 916.875 | 927.575 | 914.275 |
| 33 | 903.625 | 916.925 | 927.625 | 914.325 |
| 34 | 903.675 | 916.975 | 927.675 | 914.375 |
| 35 | 903.725 | 917.025 | 927.725 | 914.425 |
| 36 | 903.775 | 917.075 | 927.775 | 914.475 |
| 37 | 903.825 | 917.125 | 927.825 | 914.525 |
| 38 | 903.875 | 917.175 | 927.875 | 914.575 |
| 39 | 903.925 | 917.225 | 927.925 | 914.625 |
| 40 | 903.975 | 917.275 | 927.975 | 914.675 |

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| ETL SEMKO ③ | |
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| Action By | |
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