

## 900 MHz UHF TRANSMITTER

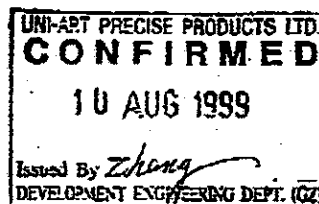
Transmitter consists of a voltage regulator circuit, a audio pre-amplifier, a high frequency filter, auto power control circuit, stereo modulator, UHF amplifier and charge circuit.

Stereo audio signal is fed into transmitter through left and right channels, and pass through the pre-emphasis circuit (C5, R3, C6, R2) to pre-amplifier (IC1), which is with AGC circuit. The amplified signal then passes through the lowpass filter L3, C15, C17 (L4, C16, C18) to eliminate high frequency noise. This audio signal is used for two purposes, one is through R59, C55 (R60, C54) to IC4 (Pin 9) for amplifier auto power control; another is fed to pre-emphasis circuit C19, R20 (C20, R22) further to stereo modulator (IC2).

Oscillator (Y1, C35, R33) creates 38KHz pilot signal. The pilot signal and audio signal are then mixed and modulated by IC2, fed to UHF module through R27 and C26 to amplify and transmit.

AC120V is transformed into DC12 V by AC/DC adaptor as input of the voltage regulator (IC3). The output of IC3 is for IC1 power supply and connect to charge circuit (R48, D4), which is for charging Ni-Cd batteries of receiver. When changing, the charge/transmit switch Q2 is cut off by IC4A and IC4D, so UHF module has no power supply.

# REVISED



Prepared/Drawn by: <i>Zheng</i>	Description: <i>CIRCUIT DESCRIPTION OF R6951</i>				
Checked by: <i>Li Jia</i>					
Approved by: <i>10/8/99</i>	Model No.: <i>R6951</i>				
Ref No.: AL	Model Name:	Revision	Chg. by	App'd by	Date
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