

## Wireless Guitar circuit description 电路说明

### **AUDIO CIRCUIT 音频部分**

The audio signal is injected via the microphone sensor into the electronic switch (U5 CD4066). Then the audio signal is amplified (U3 4558) and via pre-weight circuit composed of R79, R99, C77, C78, C68 with a compress circuit (U4 NE571). The level of the output signal is controlled by the resistor VR2(10kΩ) to modulation part.

### **MODULATOR CIRCUIT 调制部分**

The modulator circuit is direct FM type built around the local oscillator (VCO) composed of T33, BD149, VL(15T) with 16MHz Crystal as its clock to generate a set carrier needed. the output signal from T33 & IFT(35) is sent to RF pre-amp.

### **RF PRE-AMPLIFIER & FINAL AMPLIFIER 放大部分**

Five transistor amplifier stages, using transistor T33 x 3, R24 as preamplifier, 415 to culminating with a normal transmitter output of <1mW. The output filter comprised of 3 caps (1.5pf, 2pF, 2pF), 3 conductor (1T, 1T, 15NH) and 2 VC (2-8pF) suppresses the output harmonics and matches the output to the integrate antenna.

### **Operation and Display (操作和显示部分)**

Two LED display the power status.

### **POWER CIRCUIT 电源部分**

The power is controlled by IC (6367) and 7805, transistor 113 and 3 x L6 for power control.

**Operation frequency range:** 614.2-697.8 MHz; Modulation Type: 80kF3E

**Antenna type:** Whip Antenna