

## 2) Detail circuit information

### 1) Frequency stabilization

This is the crystal oscillation method and its frequency stabilization depends on quality. Our frequency allowance will be within  $\pm 10\text{ppm}$  at temperature  $-10\text{C}$  to  $+60\text{C}$ . In order to increase its stabilization, we use thermistor and temperature compensating capacitors.

### 2) Spurious suppression

In order to suppress the spurious, LC type filter has been applied after the power amplification. Its detail circuit is posted below. It is organized by a compound tuning circuit and pi type low pass filter.

### 3) Limiting circuit

In order to suppress the amplitude of Audio signal, we increase the gain of first amplifier of microphone and apply the limiter circuit for pre-emphasis and low pass filter output at the AF (IC102).