

2) Circuit explanation

a) Frequency stabilization

This is a synthesizer oscillation system and its frequency stability depends on its character of crystal vibrator. The crystal used in this model is guaranteed of its frequency allowance within 10ppm (temperature -10°C to $+60^{\circ}\text{C}$).

b) Spurious suppression

In order to suppress the spurious, we put a filter (LC type) after the power amplification. This is a pi-type double low pass filter .

c) Modulation limit

There is a limiter circuit (organized by diodes) after AF low pass filter to control a modulation.