

Tune-up Procedure

1. PLL VCO Part

Connect Voltage meter to the TP terminal(C54+), adjust VC2 that receiving voltage is to be 1.0V at 1st channel (462.5625 MHz). At this time, the transmitting Voltage should be in 1.0 ~ 1.5V range.

2. Receiving Part (Measurement Frequency : 462.5625MHz)

- 1) Set the SSG with “the channel frequency to be 462 ~ 467MHz, Signal Voltage of 1mV, 1KHz to be 1.5 KHz FM modulation”, and then connect the SSG to the Antenna Jack.
- 2) Connect Oscilloscope to the DET terminal of J2, check that Vp-p is the maximum status, and then up and down the “Volume Adjust Knob”, make the wave to be the square wave(0.5~ 0.7V)

3. Transmitting Part (Measurement Frequency : 462.5625MHz)

- 1) Adjust finely the VC1 that the frequency is to be accurate transmitting frequency.
- 2) Set the VR1 to the maximum position(counter clockwise), load 1.0 KHz, -20dBm (which don't have the tone) to the MIC+ terminal, and then adjust VR1, make the frequency deviation to be 2.1 KHz.
- 3) Load TONE 67Hz(CTCSS), check that the frequency deviation is below than 0.6 ~ 0.7KHz.
- 4) When modulating “the 1KHz Audio signal and the signal which has tone”, check that the value is less than 2.5KHz.