Circuit Description

Q1 the 2414 MHz crystal oscillator drives the base of Q2 the final/ buffer amplifier. Summed into the same base (Q2) is the modulation provided by IC1. The output of Q2 has the matching network consisting of L1, L2, C1, and C2 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

Antenna, Ground, and Power Source

The antenna consists of a 45cm long telescoping chrome over brass tubing. There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 12 Volt primary storage cell.

Operational Description

RCM106 wireless transmitter module intended for in 2.4GHz wireless A/V signal Sender and Receive set as RF output modulator, which converts the FM video and audio signal into the RF signal fo TV or Monitor. This device has a built in antenna. And this device can also be seemed as a portable device with the monitor and can use within 80 feet indoor or 300 feet if without obstruction. You can fixed the device on a table or wall by screwed the mounting base. To fix the device, please follow the installation. And please make sure the supervision and monitor are set at same band before in use.

Specifications:

video System

Transmitter frequency

Max Range

Transmitter Antenna

Transmitter Sensitivity

Indoor/Outdoor

Number of Channels

Modulation duty cycles

Frequency Control

Video input Level

Differential Gain

Audio Input Impedance

A/v Signal Level Ratio

Output RF level

Video Input Impedance

Video Modulation

Differential Phase

Audio Modulation

Power Consumption

NTSC

2.411~2.471 GHZ

300feet

Directional

odbm FCC

Indoor Only

4

7:3

IIC PLL

1Vp-p

±8%

1.4K

27dB

100mW

1.3K

3MHz

±8%

40KHz

DC 12V 350mA