



GO-LINK TECHNOLOGY CO., LTD.

高林科技有限公司

PRODUCT SPECIFICATION

產品規格書

PRODUCT: 2.4GHz A/V Rx Module

MODEL NO.: MAV-24RX013

DATE: \_\_\_\_\_

Customer (客戶): \_\_\_\_\_

Approved (承認): \_\_\_\_\_

## 1. General

- 1.1 Receiving frequency range
- |       |          |       |                   |
|-------|----------|-------|-------------------|
| CH1 : | 2414 MHz | CH1': | 2490 MHz (option) |
| CH2 : | 2432 MHz | CH2': | 2510 MHz (option) |
| CH3 : | 2450 MHz | CH3': | 2390 MHz (option) |
| CH4 : | 2468 MHz | CH4': | 2370 MHz (option) |
- 1.2 RF input impedance                    50Ω
- 1.3 Intermediate frequency                479.5 MHz
- 1.4 Channel selection system            PLL synthesizer set by Dip Switch, Slide Switch or External CUP
- 1.5 Demodulation system                Video: FM  
    Audio: FM - FM

## 2. Mechanical Specification

Please refer to Figure 8

## 3. Environmental Specification

- 3.1 Temperature                    -10°C ~ +60°C

## 4. Testing Condition

- 4.1 Supply Voltage 5V  
4.2 Ambient Temperature 25°C

## 5. Electrical Specification

| No. | Item                | Specifications |      |      | Unit | Test Condition                              |
|-----|---------------------|----------------|------|------|------|---|
|     |                     | Min.           | Typ. | Max. |      |   |
| 1   | Supply Voltage      | 4.0            | 5.0  | 6.0  | VDC  |   |
| 2   | Current Consumption |                | 160  |      | mA   |   |
| 3   | Input Level         | -85            |      | -10  | dBm  |   |
| 4   | Sensitivity         |                | -85  |      | dBm  |   |
| 5   | Video Output Level  | 0.9            | 1    | 1.3  | Vp-p | Modulation signal. 75 % color Bar 75 Ω load |
| 6   | Video S/N Ratio     | 40             |      |      | dB   | 100 KHz, 1Vp-p Sine Wave                    |
| 7   | Audio Output Level  |                |      | 2.7  | Vp-p |   |
| 8   | Audio Freq. Resp.   | 50             |      | 15K  | Hz   | - 3 dB bandwidth                            |
| 9   | Audio S/N Ratio     | 47             | 50   | 53   | dB   | 50 Hz ~ 15 KHz                              |

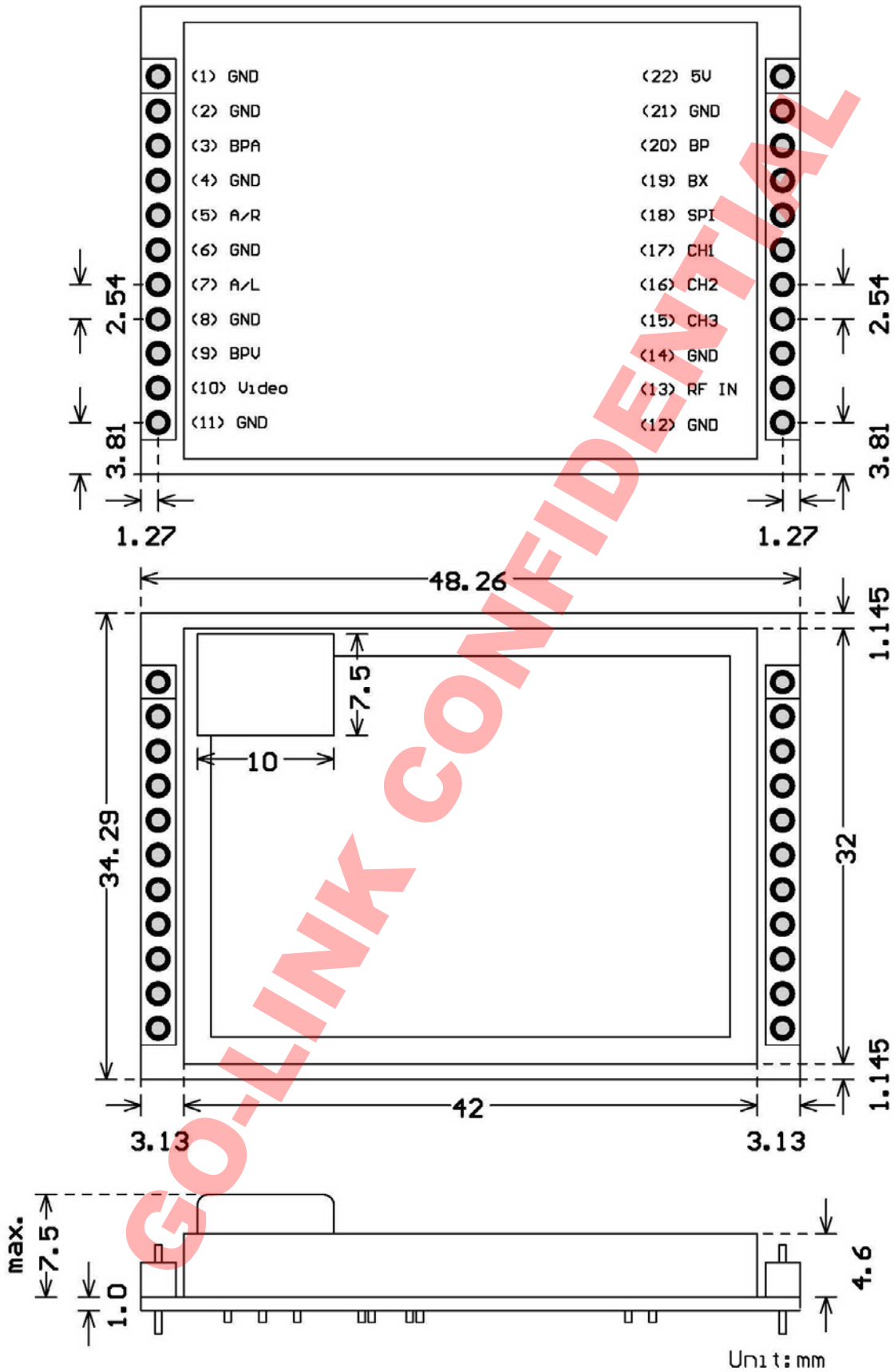
## 6. PIN Assignment

| Pin No. | Pin Name | Pin No. | Pin Name       |
|---------|----------|---------|----------------|
| 1       | GND      | 12      | GND            |
| 2       | GND      | 13      | RF IN          |
| 3       | BPA      | 14      | GND            |
| 4       | GND      | 15      | CH3 / SPI_DATA |
| 5       | A/R      | 16      | CH2 / SPI_LE   |
| 6       | GND      | 17      | CH1 / SPI_CLK  |
| 7       | A/L      | 18      | SPI_SE         |
| 8       | GND      | 19      | BX             |
| 9       | BPV      | 20      | BP             |
| 10      | VIDEO    | 21      | GND            |
| 11      | GND      | 22      | 5V             |

## 7. Channel Selection (PIN 18 SPI & PIN19 BX tie to GND)

| Receiving Frequency | Contents                                  |
|---------------------|---|
| CH1 : 2414MHz       | PIN 17 tie to GND, PIN 15 and PIN 16 open |
| CH2 : 2432MHz       | PIN 16 tie to GND, PIN 15 and PIN 17 open |
| CH3 : 2450MHz       | PIN 15 tie to GND, PIN 16 and PIN 17 open |
| CH4 : 2468MHz       | Keep PIN 15, PIN 16 and PIN 17 open       |

## 8. Dimension



## 9. Application CKT

