



高霖通訊科技有限公司
Go-Link Technology Co., Ltd.

產品規格/承認書
PRODUCT SPECIFICATION / APPROVAL SHEET

產品 : 2.4GHz 類比無線接收模組
Product : 2.4GHz A/V RX module

型號
Model No. : MA24R0012N

客戶
Customer :

客戶型號
Customer Model No. :

		本承認書內容若貴公司確認無誤， 請於下方承認欄內簽章。 Please confirm your acceptance of this approval sheet by authorized signatures.	
		承認欄 Approved Signature	
版本 (Version)	V1.0		
日期 (Date)	2017/02/21		

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1. General

No.	Items		
1	Operation Frequency Range	2400MHz ~ 2483 MHz	
2	Channel Selection (PLL Synthesizer, 4 CH)	IN Band	CH1 : 2414 MHz
			CH2 : 2432 MHz
			CH3 : 2450 MHz
			CH4 : 2468 MHz
		OUT Band	CH1 : 2490 MHz
			CH2 : 2510 MHz
			CH3 : 2390 MHz
			CH4 : 2370 MHz
3	Video Modulation	FM	
4	Audio Modulation	FM-FM	
5	RF Antenna Port Impedance	50 Ω	

2. Environmental Specification

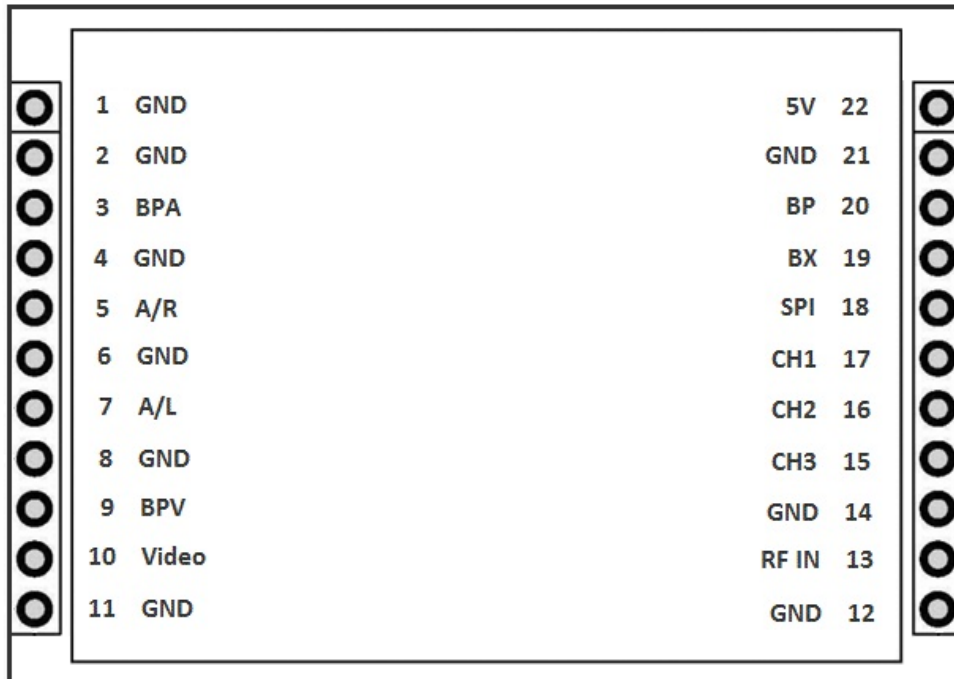
No.	Items	Min.	Typ.	Max.	Unit.
1	Operating Temperature	-10	-	+60	°C
2	Storage Temperature	-30	-	+85	°C

3. Electrical Characteristics

Testing Condition @ 25°C

No.	Items	Min.	Typ.	Max.	Unit.	Condition
1	Supply Voltage		5.0	-	V _{DC}	
2	Current Consumption	150		180	mA	
3	Input Level	-85		-30	dBm	
4	Sensitivity		-85		dBm	
5	Video Output Level	-	1	1.38	V _{p-p}	Modulation signal. 75 % color Bar 75 Ω load
6	Video S/N Ratio	40			dB	
7	Audio Output Level	1.7	2	2.3	V _{p-p}	@TX 2V _{p-p} Input
8	Audio Output Frequency Range	50	~	15K	Hz	- 3 dB bandwidth
9	Audio S/N Ratio		50		dB	50 Hz ~ 15 KHz

4. Pin Assignment



Pin No.	Name	I / O	Function Description
1	GND	-	Ground
2	GND	-	Ground
3	BPA	-	Bypass (Audio)
4	GND	-	Ground
5	A/R	O	Audio R channel output
6	GND	-	Ground
7	A/L	O	Audio L channel output
8	GND	-	Ground
9	BPV	-	Bypass (Video)
10	Video	O	Video output
11	GND	-	Ground
12	GND	-	Ground
13	RF IN	I	RF Input

14	GND	-	Ground
15	CH3	I	Channel setting
16	CH2	I	Channel setting
17	CH1	I	Channel setting
18	SPI	I	OPEN : SPI Mode Short to GND : DIP Switch Mode
19	BX	I	OPEN : Out Band Short to GND : In Band
20	BP	-	Bypass
21	GND	-	Ground
22	5V	I	DC power input

5. Channel Selection

In Band Setting (Table 1)

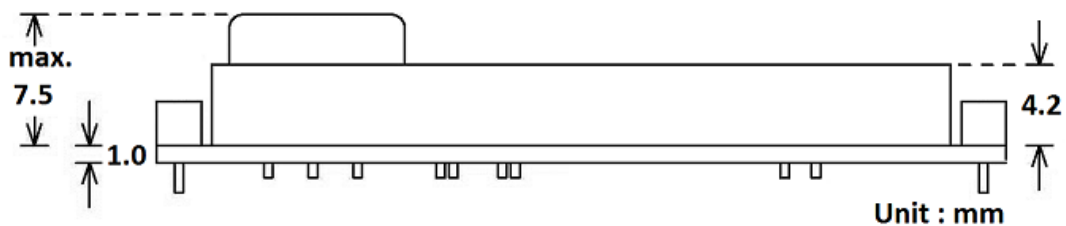
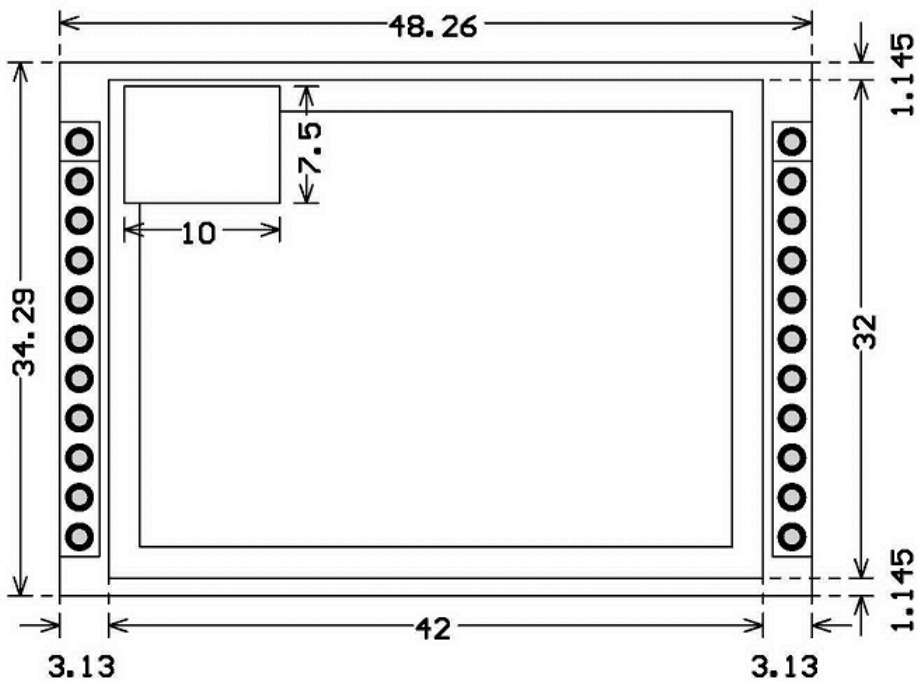
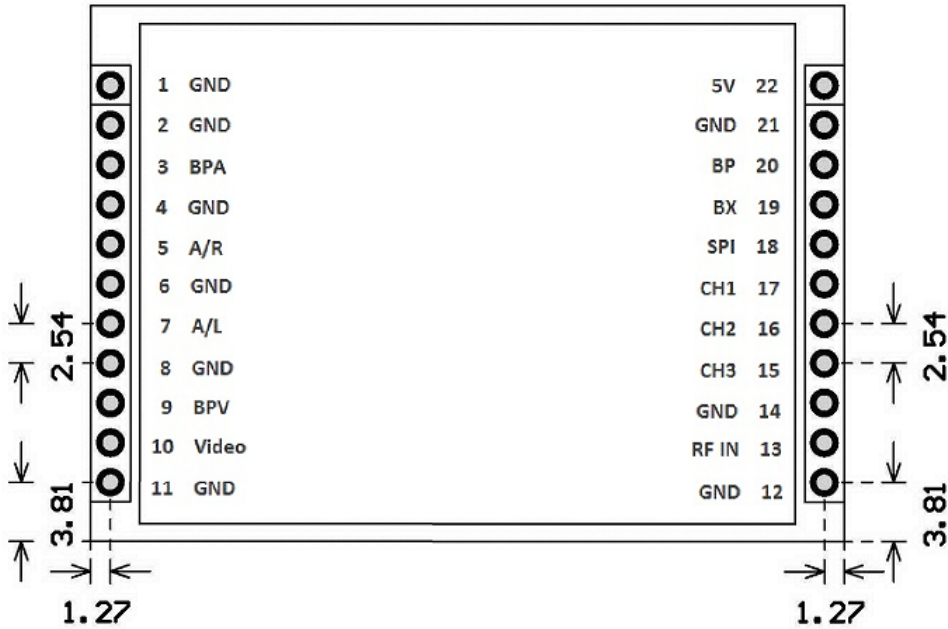
Channel / Freq.	CH1 (Pin 17)	CH2 (Pin 16)	CH3 (Pin 15)	BX (Pin 19)
CH1 : 2414 MHz	GND	OPEN	OPEN	GND
CH2 : 2432 MHz	OPEN	GND	OPEN	GND
CH3 : 2450 MHz	OPEN	OPEN	GND	GND
CH4 : 2468 MHz	OPEN	OPEN	OPEN	GND

Out Band Setting (Table 2)

Channel / Freq.	CH1 (Pin 17)	CH2 (Pin 16)	CH3 (Pin 15)	BX (Pin 19)
CH1 : 2490 MHz	GND	OPEN	OPEN	OPEN
CH2 : 2510 MHz	OPEN	GND	OPEN	OPEN
CH3 : 2390 MHz	OPEN	OPEN	GND	OPEN
CH4 : 2370 MHz	OPEN	OPEN	OPEN	OPEN

6. Mechanical Specification

6.1 Dimension



6.2 Application CKT

