

AKIHABARA INC.

PRODUCT SPECIFICATION

PRODUCT: 5.8GHz A/V Rx Module

MODEL NO.: MAV-58RX003

DATE: _____

Customer (): _____

Approved (): _____

1. General

- 1.1 Operating frequency range 5725 ~ 5875 MHz
- 1.2 Receiving frequency range CH1 : 5733 MHz
(PLL Synthesizer, 8CH) CH2 : 5752 MHz
CH3 : 5771 MHz
CH4 : 5790 MHz
CH5 : 5809 MHz
CH6 : 5828 MHz
CH7 : 5847 MHz
CH8 : 5866 MHz
- 1.3 RF antenna input impedance 50Ω
- 1.4 Video Modulation/Demod. FM
- 1.5 Audio Modulation/Demod. 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

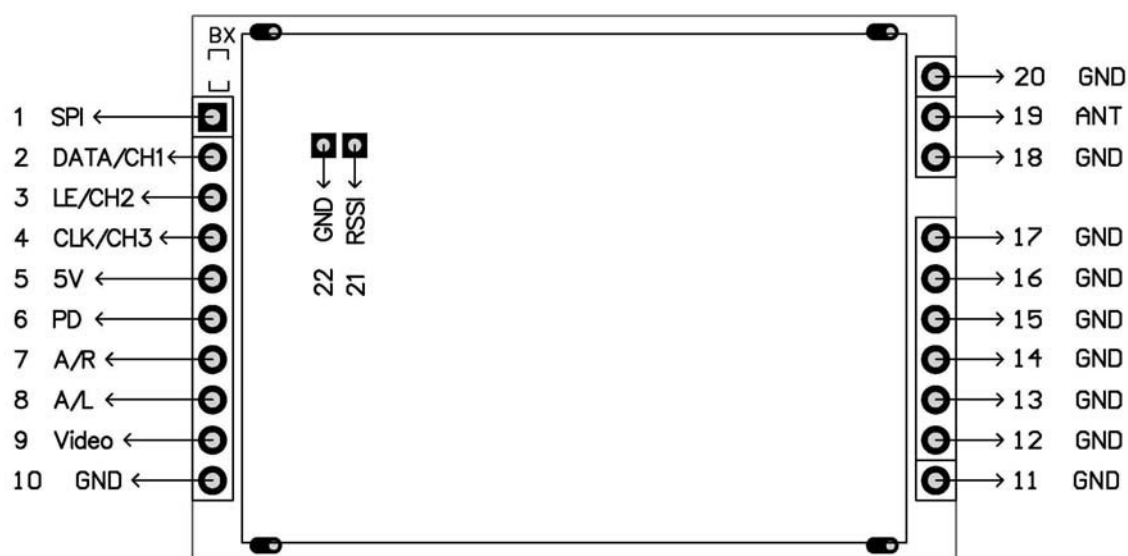
5. Electrical Specification

No.	Item	Specifications			Unit	Test Condition
		Min.	Typ.	Max.		
1	Supply Voltage	4.9	5.0	5.1	VDC	
2	Current Consumption	200			mA	
3	Input Level	-85	-10		dBm	
4	Sensitivity	-80			dBm	
5	Video Output Level	0.8	1	1.2	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			3.0	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	SPI_SE	12	GND
2	CH1/SPI_DATA	13	GND
3	CH2/SPI_LE	14	GND
4	CH3/SPI_CLK	15	GND
5	5V	16	GND
6	PD	17	GND
7	A/R	18	GND
8	A/L	19	ANT
9	Video	20	GND
10	GND	21	RSSI
11	GND	22	GND

5.8GHz RX MOD Pin Assignment



7. Channel Selection

(When BX ON - tie to GND)

Transmission Frequency	Contents
CH1 : 5733 MHz	PIN 2, PIN 3 and PIN 4 open
CH2 : 5752 MHz	PIN 2 tie to GND, PIN 3 and PIN 4 open
CH3 : 5771 MHz	PIN 3 tie to GND, PIN 2 and PIN 4 open
CH4 : 5790 MHz	PIN 2, PIN 3 tie to GND, PIN 4 open
CH5 : 5809 MHz	PIN 4 tie to GND, PIN 2 and PIN 3 open
CH6 : 5828 MHz	PIN 2, PIN 4 tie to GND, PIN 3 open
CH7 : 5847 MHz	PIN 3, PIN 4 tie to GND, PIN 2 open
CH8 : 5866 MHz	PIN 2, PIN 3 and PIN 4 tie to GND

(When BX OFF - OPEN)

Transmission Frequency	Contents
CH1' : 5705 MHz	PIN 2, PIN 3 and PIN 4 open
CH2' : 5685 MHz	PIN 2 tie to GND, PIN 3 and PIN 4 open
CH3' : 5665 MHz	PIN 3 tie to GND, PIN 2 and PIN 4 open
CH4' : 5645 MHz	PIN 2, PIN 3 tie to GND, PIN 4 open
CH5' : 5885 MHz	PIN 4 tie to GND, PIN 2 and PIN 3 open
CH6' : 5905 MHz	PIN 2, PIN 4 tie to GND, PIN 3 open
CH7' : 5925 MHz	PIN 3, PIN 4 tie to GND, PIN 2 open
CH8' : 5945 MHz	PIN 2, PIN 3 and PIN 4 tie to GND

8. Dimension

5.8GHz RX MOD

