



## Description

Airwave 2.4GHz Audio/Video wireless RF module contains one Transmitter and one Receiver. Using of the most popular 2.4GHz ISM band and designed with high reliability. Airwave RF module can transmit/receive a wide band audio & video signals up to 300 feet in open area.

## Features

- Worldwide 2.4GHz ISM band
- Compact size and low power consumption
- Highly efficient FM-FM modulation/demodulation scheme
- Compatible with both NTSC and PAL video formats
- Integrating Audio/Video input and output into one module base-band PCB
- No external Audio circuit needed
- Channel selection is four channel and default value is ch4 (not enable). Other channel can be selected by pulling low to enable.

## TECHNICAL SPECIFICATION

### General

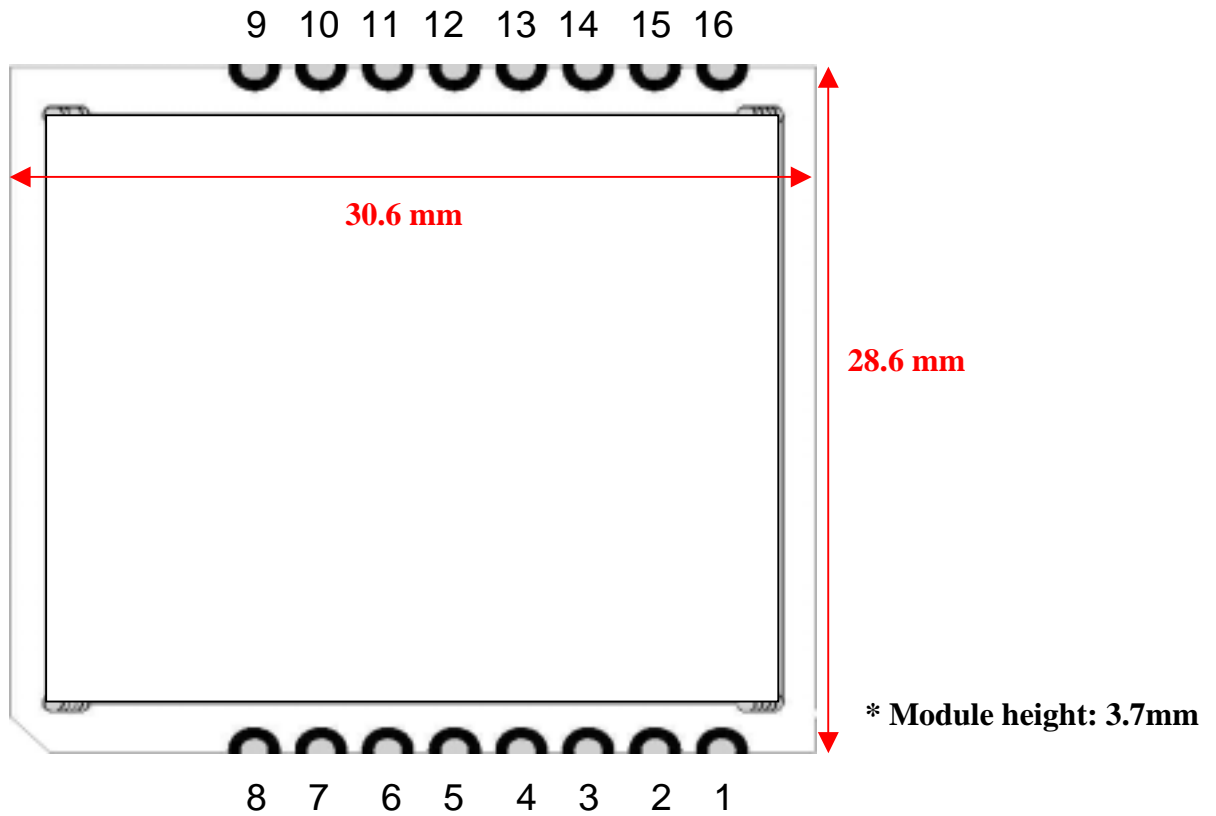
Operation Frequency Range	2400 ~ 2483MHz
Channel Selection	PLL Synthesizer, 4CH.
Channel Frequency	Ch1: 2414MHz, CH2: 2432MHz, CH3: 2450MHz, CH4: 2468MHz
Video-Audio Modulation/Demodulation Type	FM-FM
Operating Ambient Temperature	-10 ~ 60

### Transmitter

Supply Voltage	DC + 5V ( ± 2% )
Supply Current	140 ~ 180mA, typ.
Output Power	> 16dBm
2.4GHz Carrier Frequency Accuracy	±100KHz, typ.
Antenna Port Impedance	50
Video Input Impedance	75
Video Input Level	1V <sub>P-P</sub> , typ.
Audio Input Level	3V <sub>P-P</sub> , max.

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### Pad Description

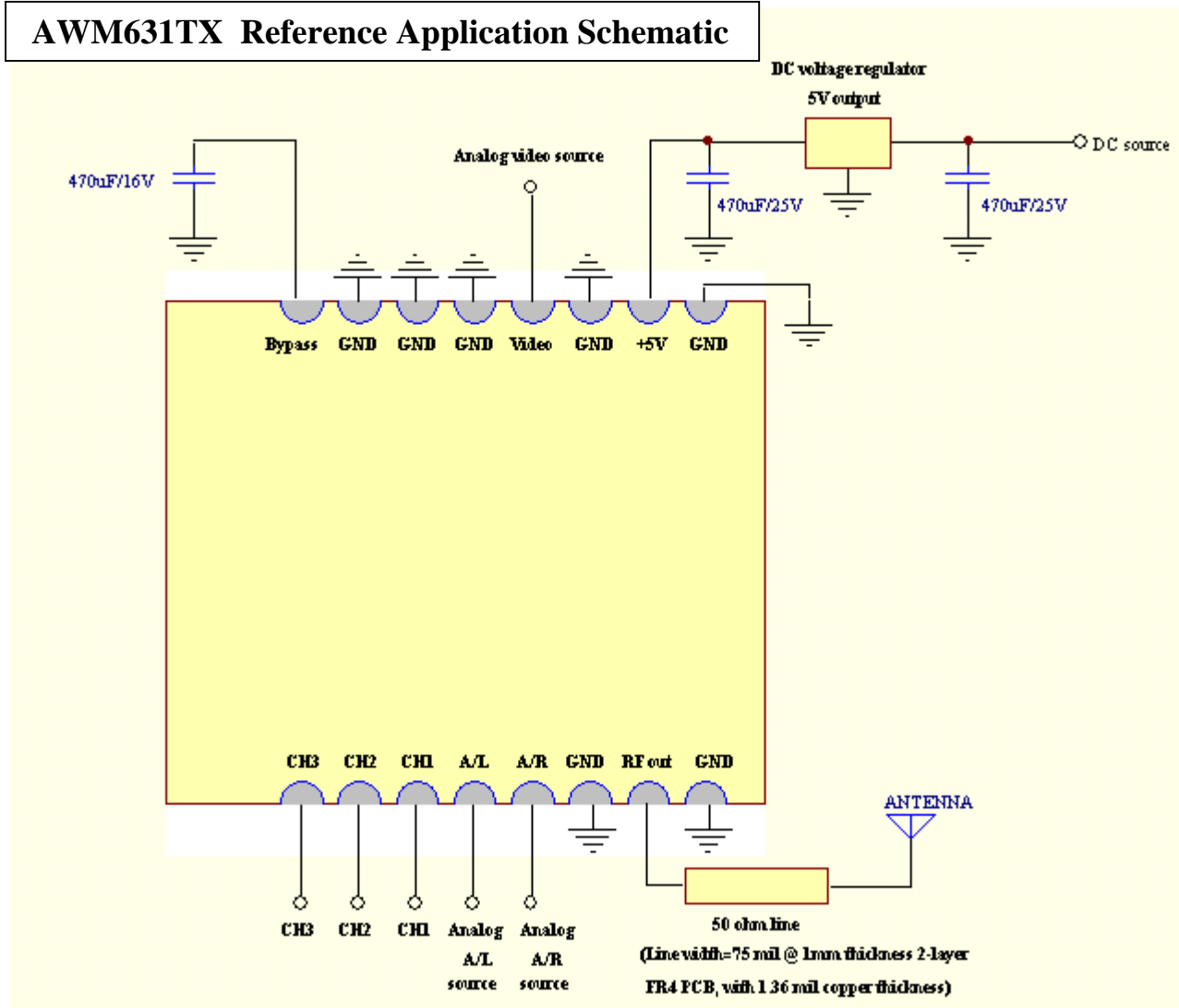


**(NOTE: Channel selection default value is ch 4)**

Pin	Function	Pin	Function
1	GND	9	Bypass
2	RF out	10	GND
3	GND	11	GND
4	Audio/R in	12	GND
5	Audio/L in	13	Video in
6	CH1	14	GND
7	CH2	15	DC +5V
8	CH3	16	GND

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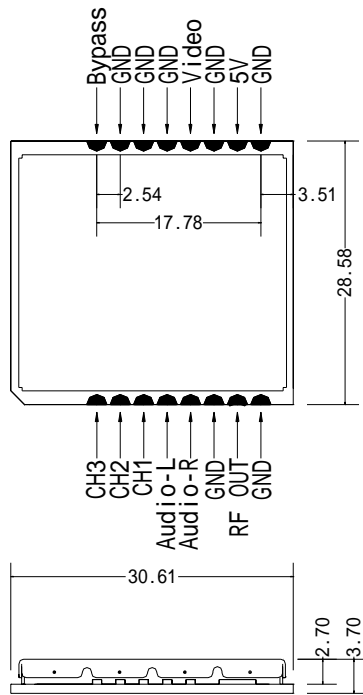
### Application Schematic



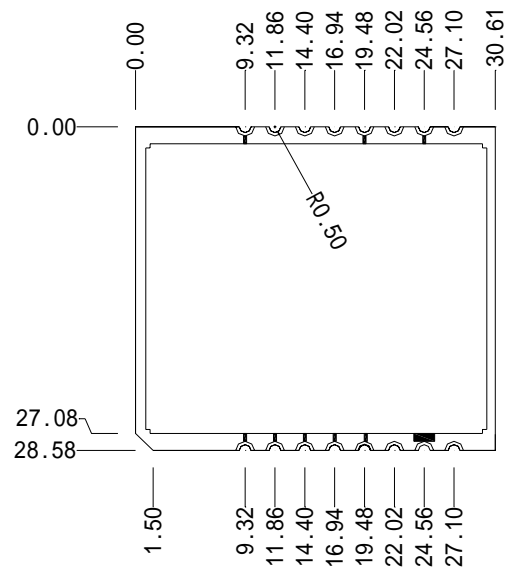
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### Dimension

#### AWM631-TX(一)



#### AWM631-TX(二)



Unit:mm Tolerance:±0.15

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