



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 is compliance with the criteria of FCC and R&TTE which can transmit/receive a wide band audio & video signals up to 300 feet in open area.

Features

- Worldwide 2.4GHz ISM band
- Conform with R&TTE & FCC stipulation
- 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

TECHNICAL SPECIFICATION

General

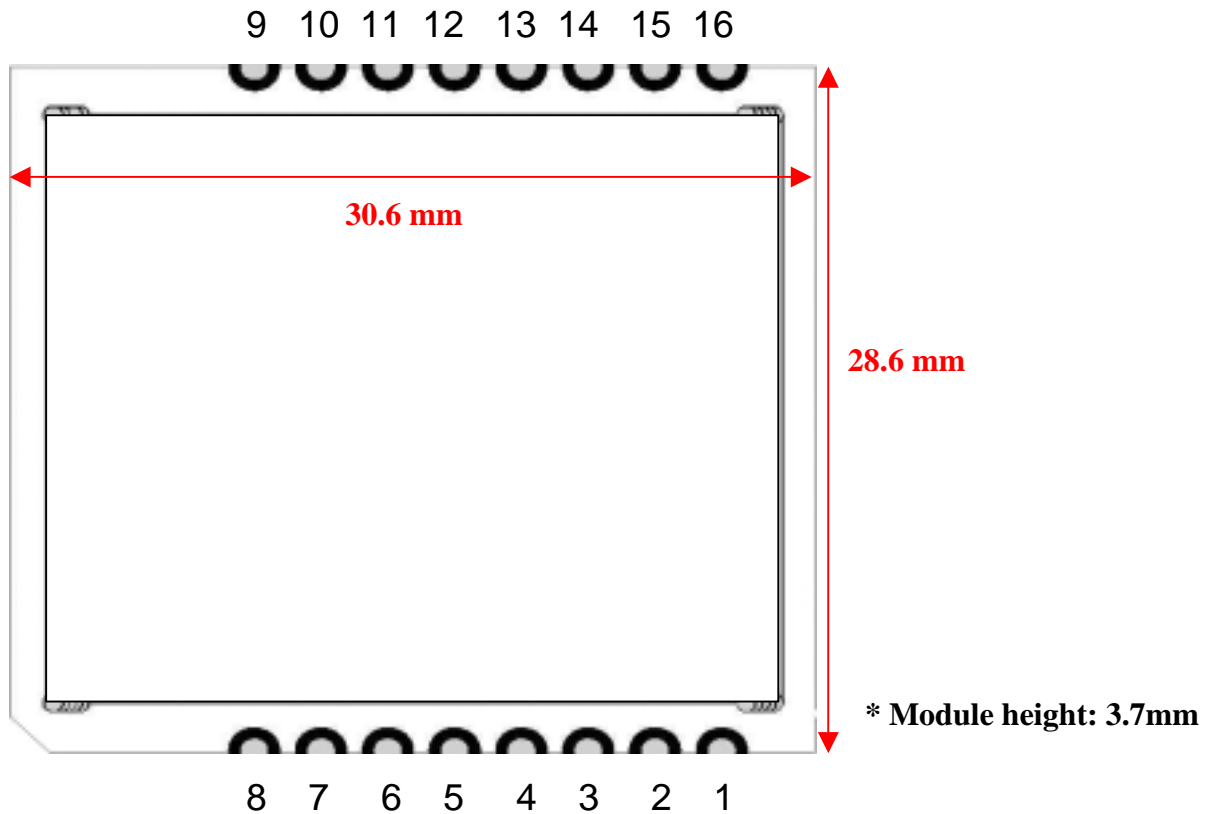
| | |
|--|---|
| Operation Frequency Range | 2400 ~ 2483MHz |
| Channel Selection | PLL Synthesizer, 4CH. |
| Channel Frequency | Ch1: 2414MHz, CH2: 2432MHz, CH3: 2450MHz, CH4: 2468MHz |
| Video-Audio Modulation/Demodulation Type | FM-FM |
| Operating Ambient Temperature | -10 ~ 60 |

Transmitter

| | |
|-----------------------------------|--|
| Supply Voltage | DC + 5V (± 2%) |
| Supply Current | 55mA, typ. |
| Output Power | 10dBm ± 1dBm (CE) 0dBm ± 1dBm (FCC) |
| 2.4GHz Carrier Frequency Accuracy | ±100KHz, typ. |
| Antenna Port Impedance | 50 |
| Video Input Impedance | 75 |
| Video Input Level | 1V _{P-P} , typ. |
| Audio Input Level | 3V _{P-P} , max. |

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Pad Description

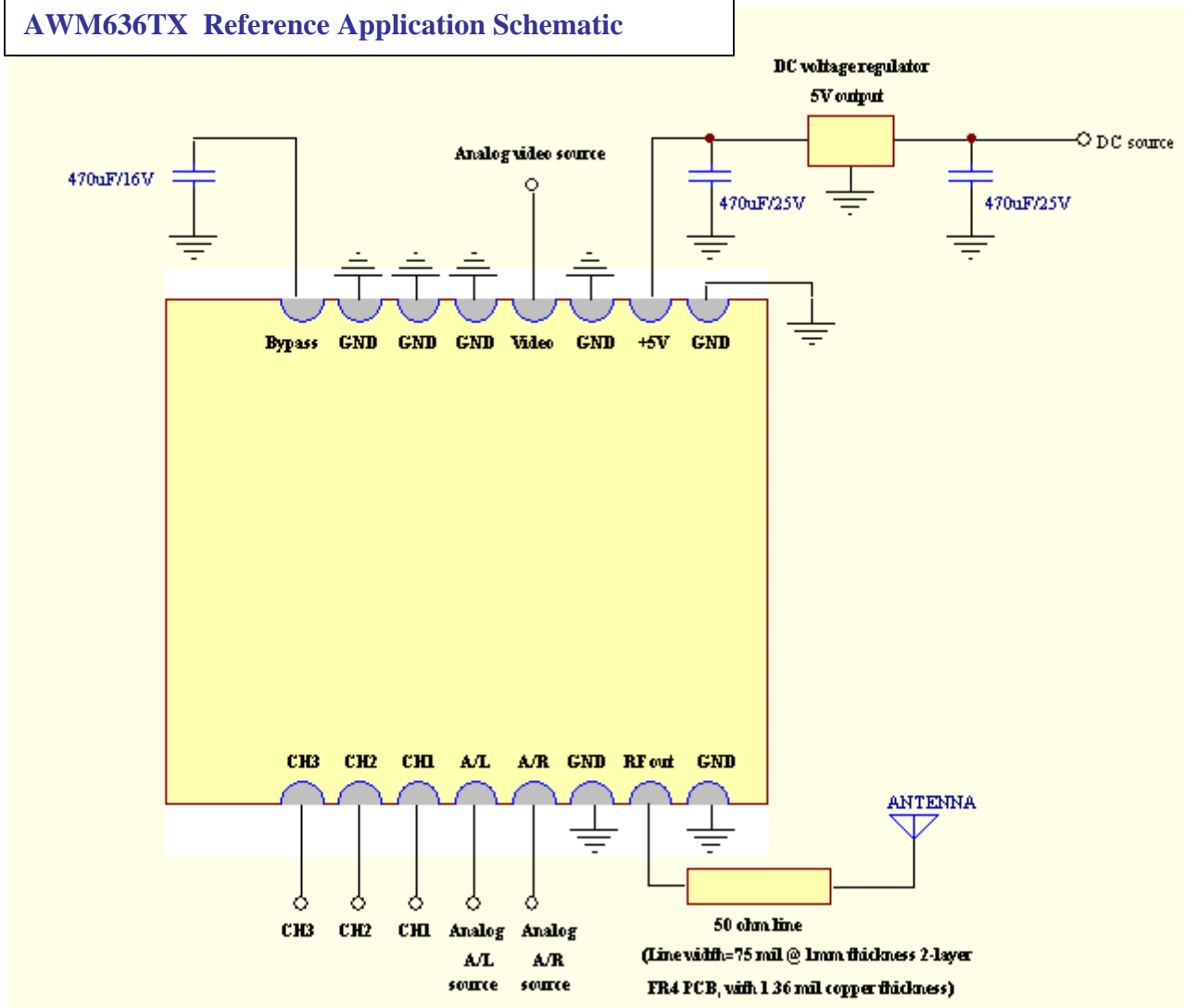


| Pin | Function | Pin | Function |
|-----|------------|-----|----------|
| 1 | GND | 9 | Bypass |
| 2 | RF out | 10 | GND |
| 3 | GND | 11 | GND |
| 4 | Audio/R in | 12 | GND |
| 5 | Audio/L in | 13 | Video in |
| 6 | CH1 | 14 | GND |
| 7 | CH2 | 15 | DC +5V |
| 8 | CH3 | 16 | GND |

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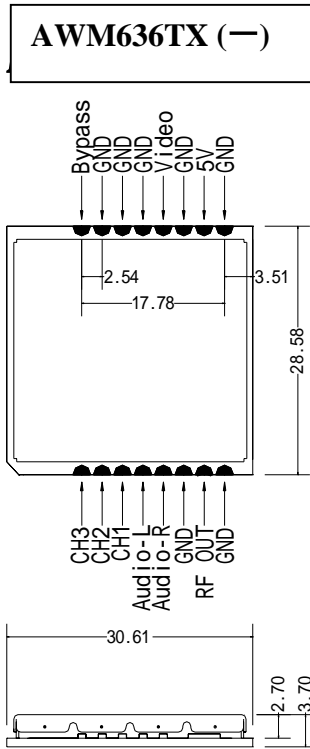
Application Schematic

AWM636TX Reference Application Schematic

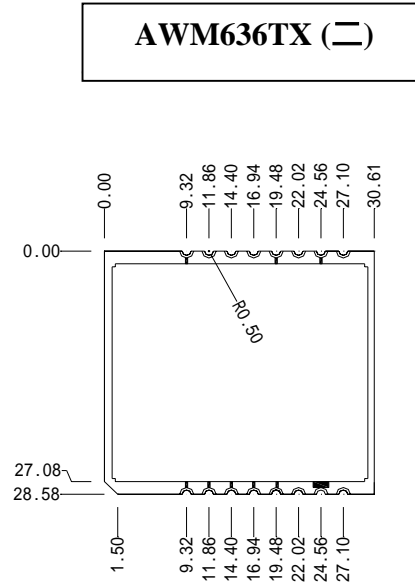


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Dimension



Unit:mm Tolerance:± 0.15



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