



AWM620RX-INV

2.4GHz Video/Audio RF Module

23-Oct-04 P1/4

TECHNICAL SPECIFICATION

General:

| | |
|------------------------------------------|--------------------------------------|
| Operation Frequency Range | 2400 ~ 2483MHz |
| Channel Selection | PLL Synthesizer, 4ch. ⁽¹⁾ |
| Video-Audio Modulation/Demodulation Type | FM-FM |
| Supply Voltage | DC + 5V |
| Supply Current | 152mA ~ 163mA @-70dBm RF in |

Receiver:

| | |
|---------------------------------------------------------------------------|----------------------------------------------------|
| Input Signal Level Range | -85~-10dBm |
| Adjacent Channel Power Rejection | -20dBm, typ. (± 3 dB) |
| Video | |
| Output Impedance | 75 Ω , typ. |
| Output Signal Level | 1V _{P-P} , typ. (± 0.2 Volt) |
| Frequency Response | ± 5 dB, max. 50Hz~5.5MHz |
| Differential Gain | $\pm 5\%$, max. |
| Differential Phase | ± 5 Deg., max. |
| S/N Ratio (100KHz, 1V _{P-P} Sine Wave) | 45dB, min. |
| Video Polarity (Referred to pin12) | Internal Pull-High: Positive Pull-Low: Negative |
| Audio | |
| Output Impedance | 600 Ω , typ. |
| Output Frequency Range | 50Hz ~ 20KHz |
| Output Signal Level (Modulation Signal : 50Hz~15KHz Sine Wave) | 3V _{P-P} , typ. (± 0.2 Volt) |
| Harmonic Distortion (THD) (50Hz~15KHz, 0.5V _{P-P} Sine Wave) | 1.5%, max. |
| S/N Ratio (50Hz ~ 15KHz) | 50dB, typ. (± 3 dB) |
| Subcarrier Frequency | 6MHz, 6.5MHz |
| Subcarrier Frequency Accuracy | ± 50 KHz |
| RSSI | |
| RSSI Output Voltage(RF Input -45~-85dBm) | 1.5 ~ 3.3V |

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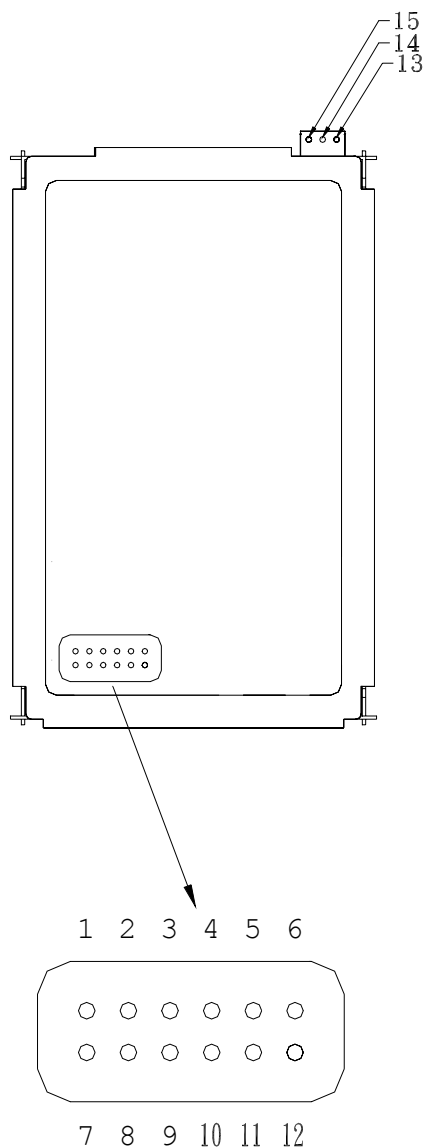
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Pin Description

| | |
|----|------------------|
| 1 | Video |
| 2 | 5v |
| 3 | GND |
| 4 | Audio/R |
| 5 | Audio/L |
| 6 | (LE) |
| 7 | RSSI |
| 8 | CH1 (Data) |
| 9 | CH2 |
| 10 | CH3 |
| 11 | CH4 (CLK) |
| 12 | Video Control |
| 13 | GND |
| 14 | ANTENNA |
| 15 | GND |



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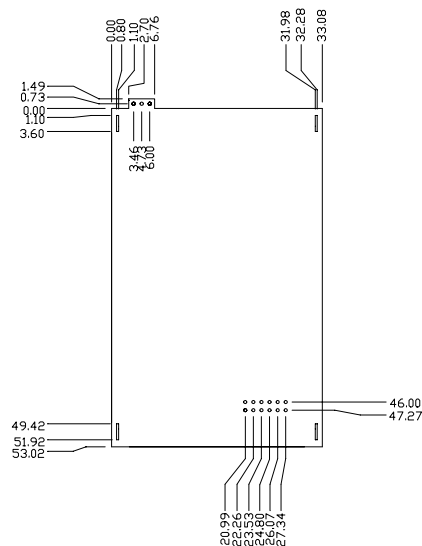
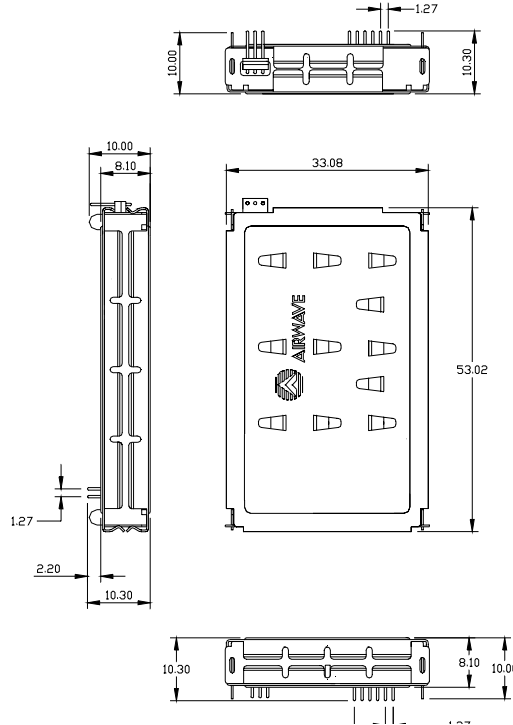
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PHYSICAL DIMENTIONS

Unit: mm



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