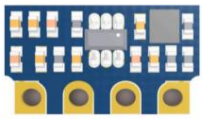
H34S transmitter module specification sheet



I. Overview

H34S is a small size and high power ASK/OOK transmitter module with independent intellectual property rights. This module uses a high-performance RF set

It is integrated into a chip and has a built-in harmonic suppression circuit that complies with various international certification requirements. It has ultra-small size, low power consumption, wide voltage range, and high stability.

Qualitative, cost-effective and other characteristics, it can pass lead-free certification, FCC, CE and other indicators certification, and is an ideal choice for various remote control systems and wireless data

Ideal for data transmission systems.

2. Characteristics

•Wide voltage, 2-12V

• Low power consumption, 8mA@3V

• High power, +18dBm@12V

• Built-in harmonic suppression

• Wide operating temperature range, suitable for harsh working environments

• Ultra-small size (10.5*6.5mm*2.0mm)

3. Parameter indicators

• Working frequency: 315MHz/433.92MHz

• Working voltage: 2-12V

• Operating current: typical 18mA, maximum 20mA (3V power supply, 40% modulation duty cycle)

• Modulation method: ASK/OOK

•Output power: typical 15dBm (3V), 16dBm (5V), 18dBm (12V)

• Harmonic suppression:>40dBc

•Transmission rate: maximum 4.8kbps

• Frequency deviation: maximum plus or minus 100KHz

• Antenna impedance: 50ÿ

• Data input: compatible with CMOS 3-5V level standard

• Overall dimensions: 10.5×6.5mm×2.0mm [width×length×thickness]

• Operating temperature: -45 to +85°C

4. Things to note:

The DAT data terminal input is compatible with the 3-5V CMOS standard. When driving the 3-5V logic level, the DAT data terminal of this module should be connected to the encoding The IC output is directly connected; some encoding IC outputs 12V logic level. In this case, the DAT data input and encoder output should be connected in series. A 47K resistor to protect the DAT data terminal.

The antenna is very important for the wireless transceiver module. Not connecting the antenna or using the antenna incorrectly will affect the use effect. The wireless transceiver module Blocks typically use 2 types of antennas:

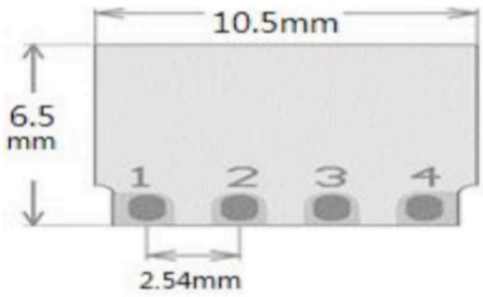
Type 1: Use whip antenna or single/multi-strand wire as antenna, 315MHz corresponds to 230mm length, 433.92MHz corresponds to 170mm long, diameter 0.5mm to 5mm. When using this antenna, be careful to spread the antenna as far as possible and away from the metal body. The effect of this antenna is Good, simple and practical is the first choice.

Type 2: Using PCB antenna has better effect and strong product consistency, but it requires special design. Our company can provide design services.

5. Installation method

Since there are no components on the back of this module, it can also be installed flat with the back close to the circuit board. This module has a large soldering hole design, which can be soldered The pin header can also be soldered directly to the base plate, supporting wave soldering and reflow soldering.

6. Appearance size:



The picture above is a schematic diagram of the front (the components are facing up, and there are no components on the back)

Pin arrangement definition: 1.ANT antenna 2.GND ground 3.VCC power supply 4.DAT data output

PCB substrate thickness 1.0mm, maximum thickness including components 2.0mm

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