

# ASK Transmitter Module

## General Description:

## 315/434 MHz ASK TRANSMITTER

The JMR-TX1 is an ASK Hybrid transmitter module.

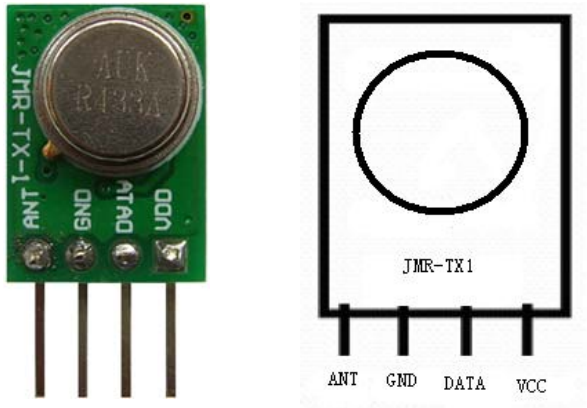
JMR-TX1 is designed by the Saw Resonator, with an effective low cost, small size, and simple-to-use for designing.

Frequency Range:315 / 433.92 MHZ.

Supply Voltage: 3~12V.

Output Power : 4~16dBm

Circuit Shape: Saw



## Applications

- ⌚ Car security system
- ⌚ Remote keyless entry
- ⌚ Garage door controller
- ⌚ Home security
- ⌚ Wireless mouse
- ⌚ Automation system

## Product Identification

|           |              |
|-----------|--------------|
| 315MHZ    | JMR-TX1-315M |
| 433.92MHZ | JMR-TX1-433M |

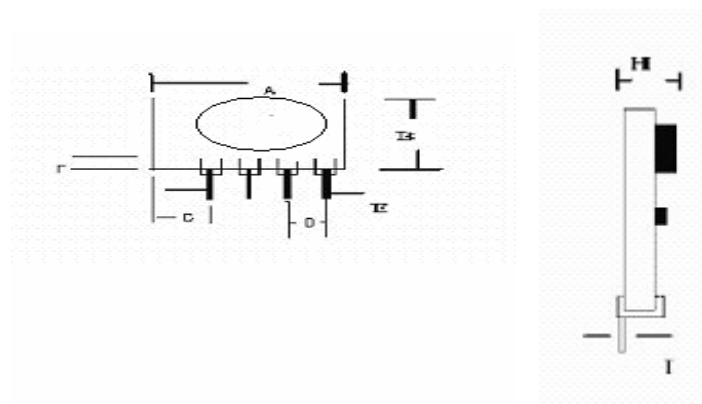
## Absolute Maximum Ratings

| Parameter             | Rating     | Rating |
|-----------------------|------------|--------|
| Supply Voltage        | 2.2—12.0   | V DC   |
| Operating Temperature | -20 to +85 | °C     |

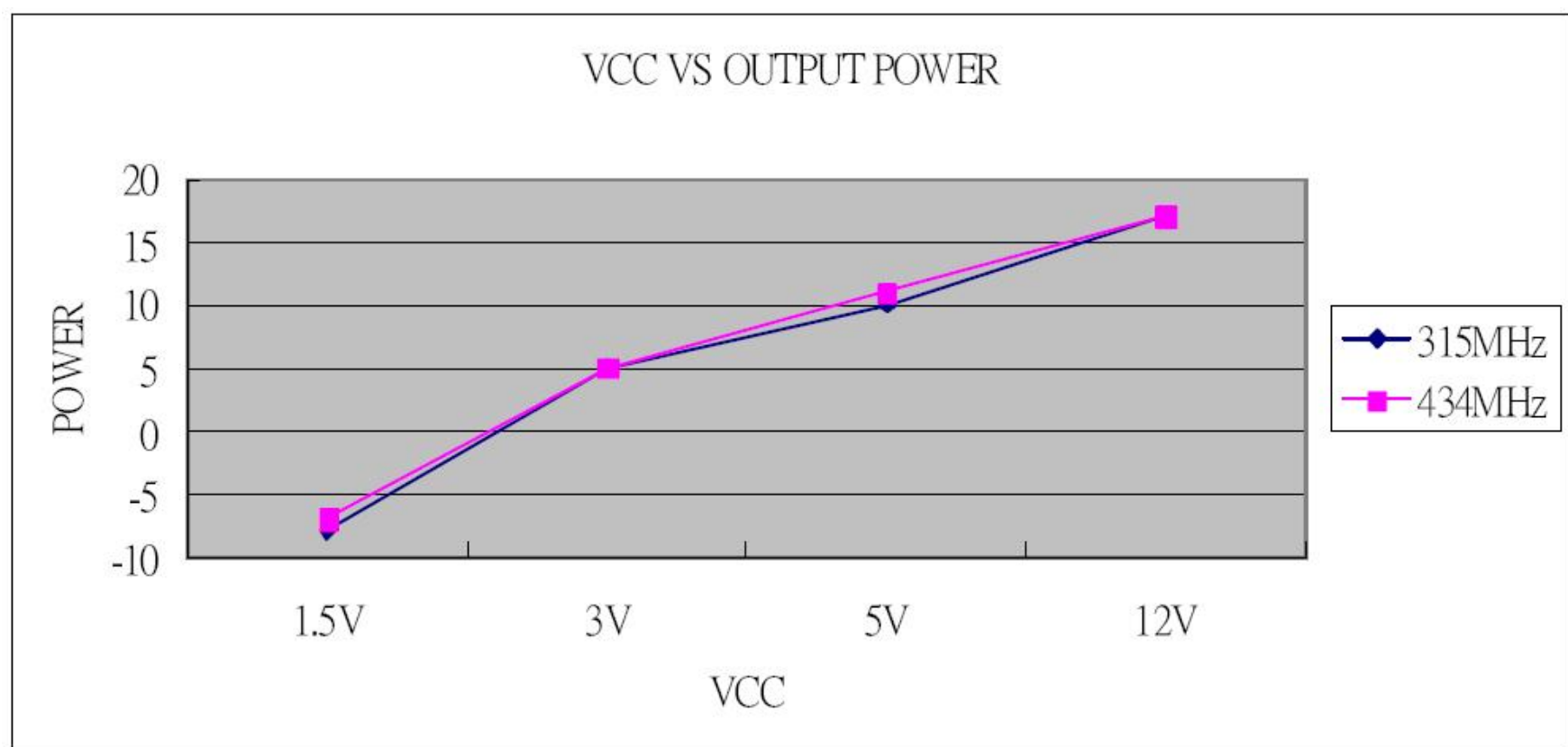
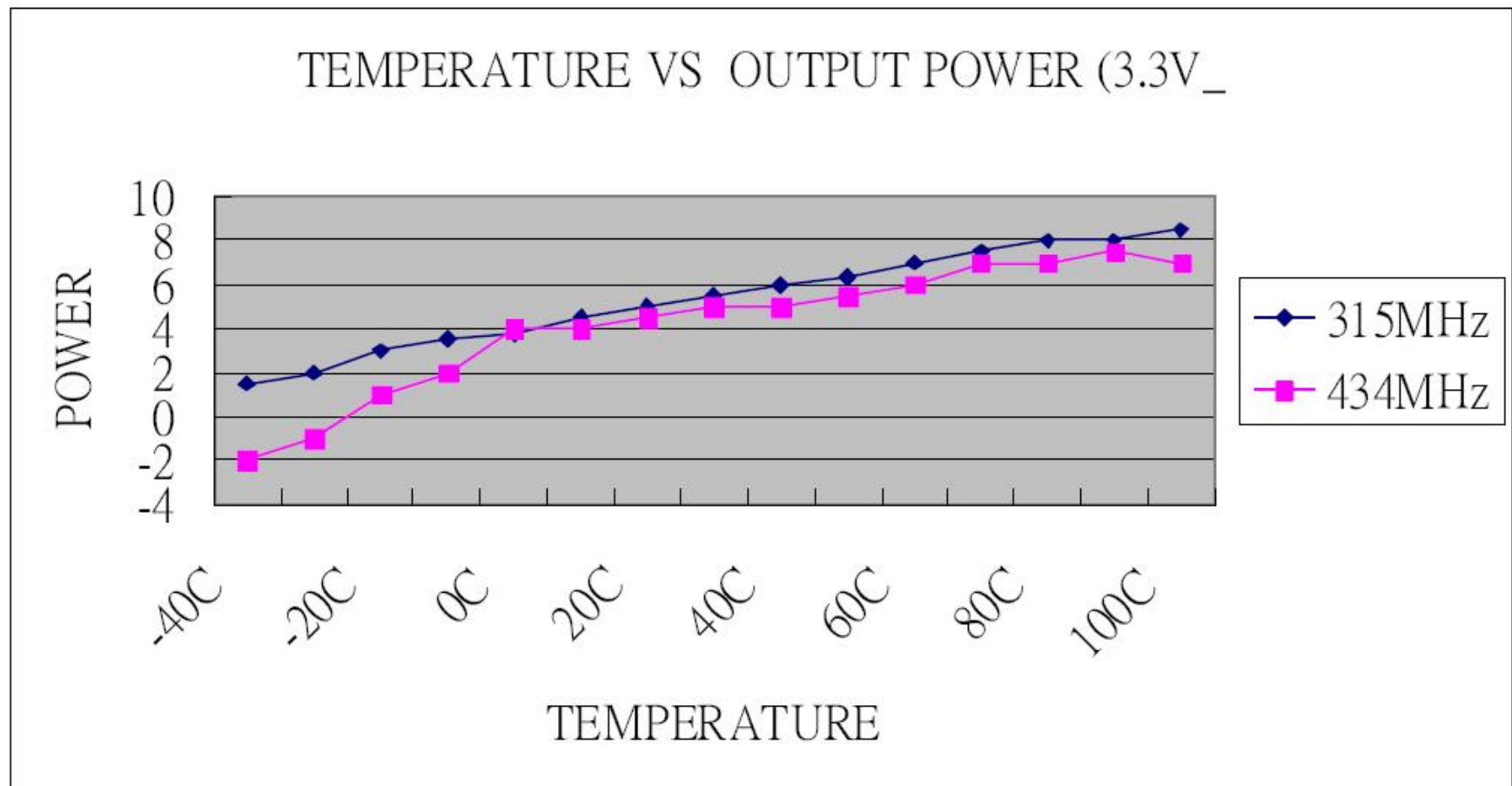
## Absolute Maximum Ratings

| Parameter         | Symbol | Condition                     | Specification  |         |    |      | Unit |
|-------------------|--------|-------------------------------|----------------|---------|----|------|------|
|                   |        |                               | Min.           | Typical |    | Max. |      |
| Operation Voltage |        |                               |                | 3V      | 5V | 12V  | V    |
| Output power      | Psens  | DATA 5V<br>1Kbps Data Rate    | 315MHz         | 4       | 10 | 16   | dBm  |
|                   |        |                               | Supply current | 11      | 20 | 57   | mA   |
|                   |        |                               | 434MHz         | 4       | 10 | 16   | dBm  |
|                   |        |                               | Supply current | 11      | 22 | 59   | mA   |
| Tune on Time      | Ton    | Data start out by Vcc turn on | 10             | 20      |    |      | ms   |
| Data Rate         |        |                               | 200            | 1k      |    | 3k   | bps  |
| Input duty        |        | Vcc=5V; 1kbps data rate       | 40             |         |    | 60   | %    |
| Temperature       |        |                               | -20            |         |    | +80  | °C   |

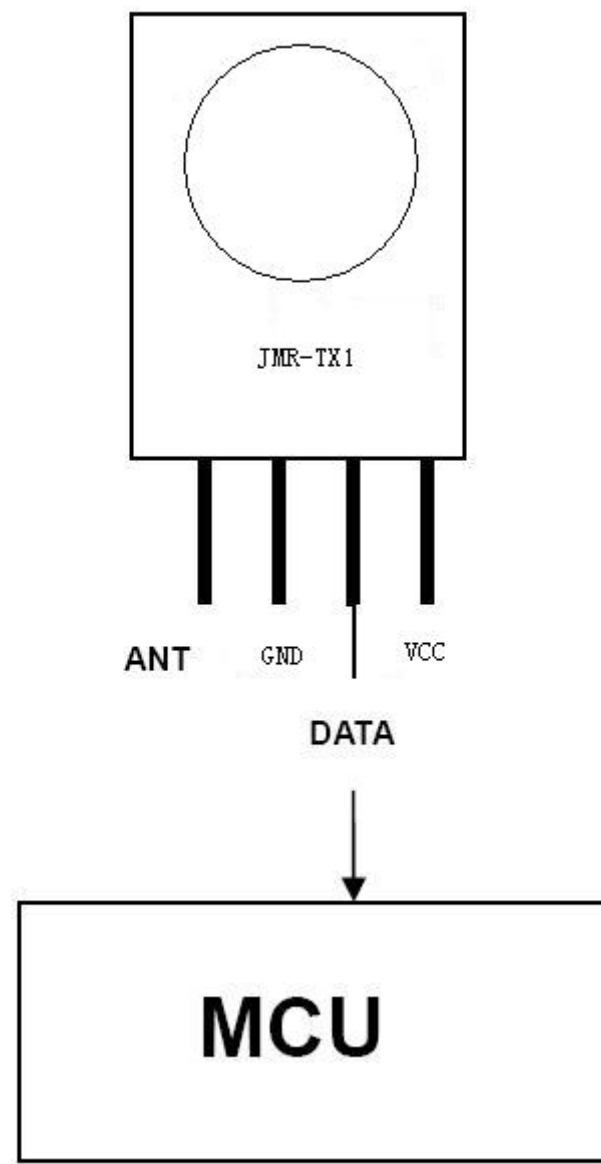
## Pin Dimension



| Dimensions | Millimeters    | Dimensions | Millimeters   |
|------------|----------------|------------|---------------|
| A          | 11 + 0.25 mm   | F          | 2 + 0.15 mm   |
| B          | 16 + 0.25 mm   | G          | 3 + 0.15 mm   |
| C          | 12 + 0.30 mm   | H          | 5.5 mm        |
| D          | 2.54 + 0.05 mm | I          | 0.7 + 0.05 mm |



### Typical Application:



### Mark: .

Antenna length about :23cm for 315MHz

17cm for 434mHz