

## HM-T SERIES FSK TX MODULE

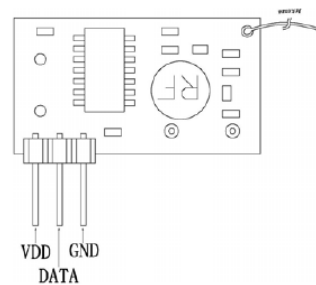
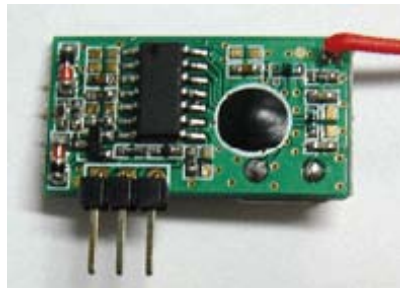
## GENERAL

HM-T series FSK transmission module is specially designed by Hope Microelectronics Co. for replacing those applications that used ASK technology module already. It used together with HM-R series FSK receiver module. Due to the benefits from FSK technology, the module is robust to interference, and longer working distance can be achieved.

## FEATURES

1. HIGHLY INTEGRATED, SMALL SIZE
2. HIGH SENSITIVITY, LOW POWER CONSUMPTION
3. FSK TECHNOLOGY, SUITABLE FOR REPLACING ASK MODULES
4. LESS INTERFERENCE, LONGER WORKING DISTANCE
5. CAN BE USED TO REPLACE ASK MODULE W/O THE NEED OF SOFTWARE CHANGE
6. NO TUNING REQUIRED DURING PRODUCTION

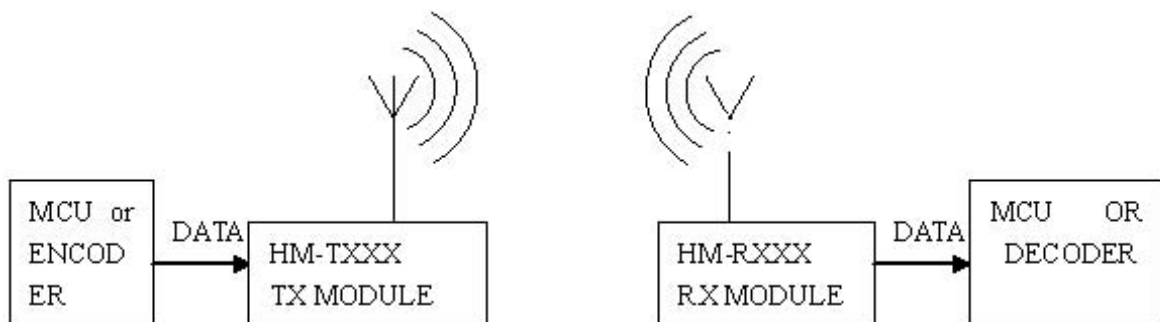
## MECHANICAL AND PIN DEFINITION



IF DATA pin is idle for more than 70mS, then the module will enter standby mode automatically.

## APPLICATION

Pin to pin replace the old ASK module. Special design can be made for more sophisticated applications.



## PARAMETER

## 1. DC Characteristic

|             | min | typical | Max  | unit |
|-------------|-----|---------|------|------|
| voltage     | 2.5 | 3       | 5    | V    |
| temperature | -35 |         | 80   | °C   |
| Data rate   | 600 | 4800    | 9600 | bps  |

note: data rate can be defined by customer from 300bps~100kbps

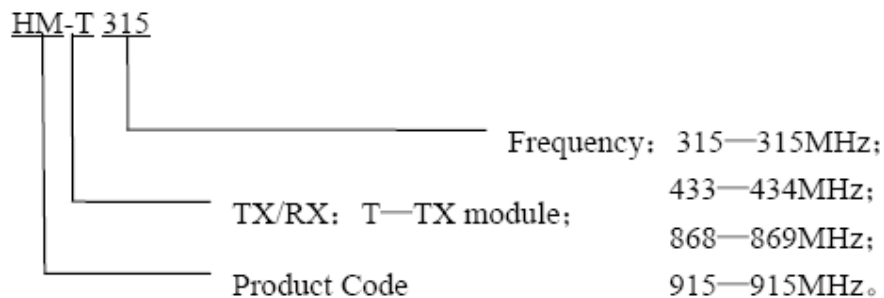
## 2. RF Characteristic

VDD=3.0V T=25°C

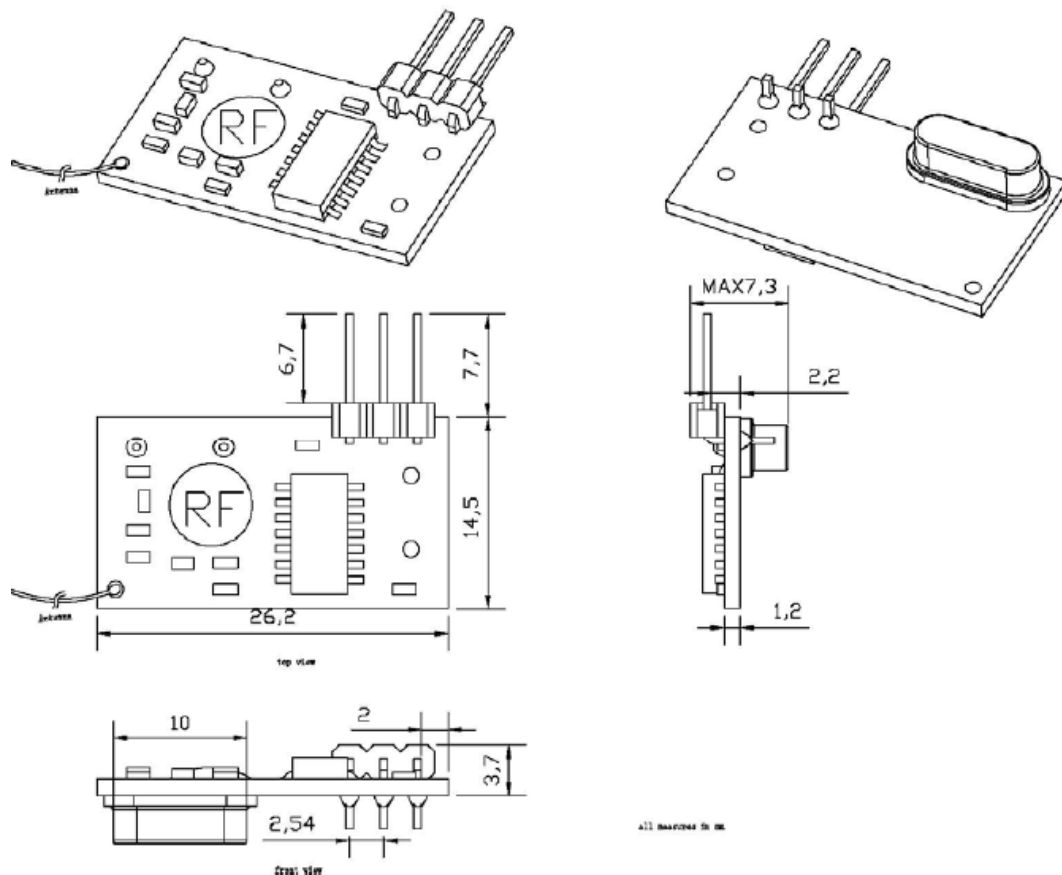
| Model                           |  | HM-T433 | HM-T868 | HM-T915 | Unit |
|---------------------------------|--|---------|---------|---------|------|
| Frequency                       |  | 433     | 869     | 915     | MHz  |
| Typical output power            |  | 6       | 4       | 4       | dBm  |
| Minimum output power            |  | 4       | 2       | 2       | dBm  |
| TX current                      |  | 30      | 31      | 31      | mA   |
| RF Distance(reliable condition) |  | 240     | 160     | 250     | m    |

note: 1. testing area: 1.open space; 2.antenna is above the ground for 2 meters;  
2. if 5Vpower supplied, even longer distance is possible, however more power consumption will be introduced accordingly.

## Naming Rules



## Mechanical Dimension



|   |  |
|---|--|
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