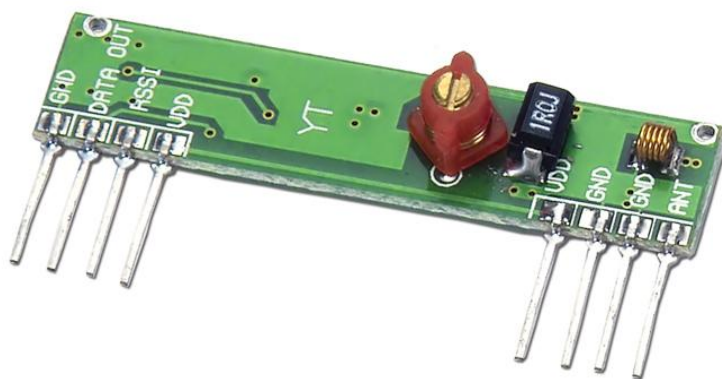

Wireless Hi Sensitivity Receiver Module (RF ASK)



Version History

| Version | Date | Changes |
|---------|-------------|---------------------------|
| V1.01 | Mar.7, 2004 | 1 st . Edition |
| V1.02 | Jul.2,2008 | 2 nd . Edition |

Model: RWS-374-5

- Frequency Range: 418MHz
- Modulate Mode: ASK
- Circuit Shape: LC
- Data Rate: 4800 bps
- Selectivity: -108 dBm
- Channel Spacing: ± 500 KHz
- Supply Voltage: 5V
- High sensitivity passive design
- Simple to apply with low external count

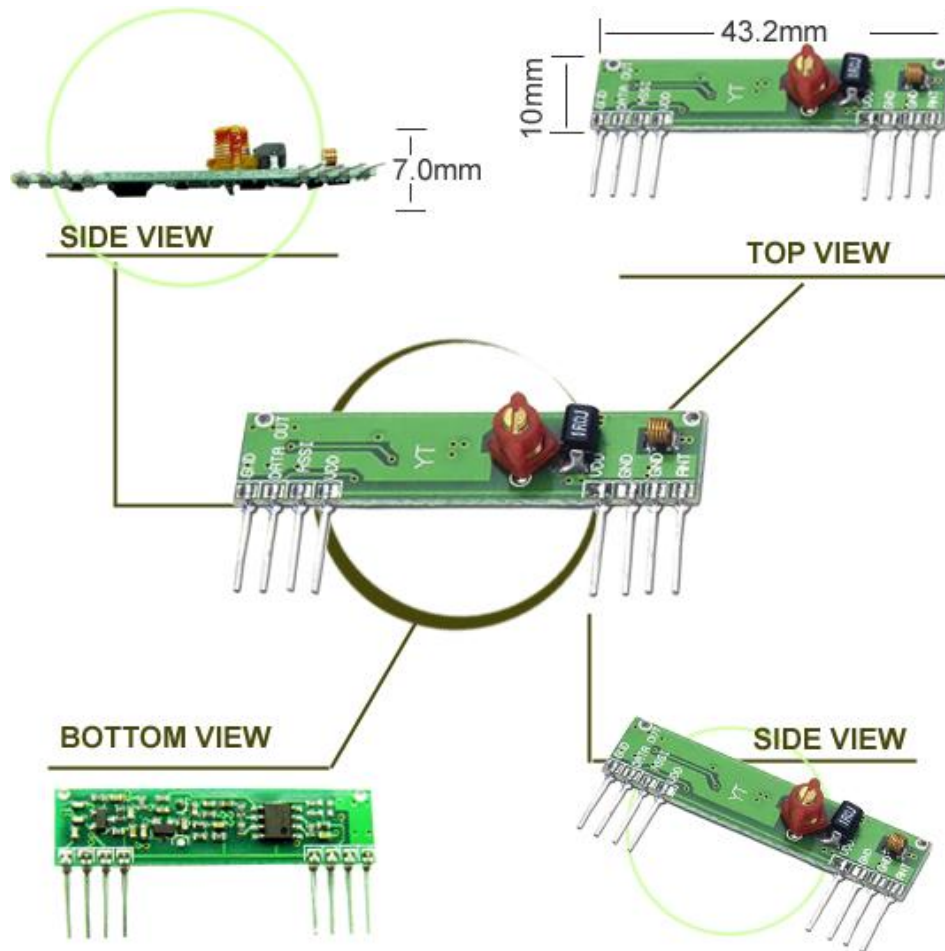
Electrical Characteristic

| Characteristic | Sym | Min | Type | Max | Unit |
|---------------------------|-------|---------|---------|---------|------|
| Operating Radio Frequency | FC | 417.500 | 418.000 | 418.500 | MHz |
| Sensitivity | Pref. | -106 | -108 | -110 | dBm |
| Channel Width | | -500 | | + 500 | KHz |
| Noise Equivalent BW | NEB | | 5 | 4 | |
| Baseband Data Rate | | | | 3 | KB/S |
| Receiver Turn On Time | | | | 3 | ms |

DC Characteristic

| Symbol | Parameter | Condition | Min | Type | Max | Unit |
|--------|--------------------------|----------------------|----------|------|-----|------|
| Vcc | Operating Supply Voltage | | 4.9 | 5 | 5.1 | |
| I Tot | Operating Supply Voltage | | | 4.5 | | |
| V Data | Data Out | 1 Data=+200uA (High) | Vcc -0.5 | Vcc | | V |
| | | 1 Data=-10uA (Low) | | | 0.3 | V |

Size



Pin Assignment

| Pin | Function |
|-----|-----------------|
| 1 | GND |
| 2 | Digital Output |
| 3 | Linear Out |
| 4 | VCC |
| 5 | VCC |
| 6 | GND |
| 7 | GND |
| 8 | ANT(About 13cm) |



Demo Circuit

