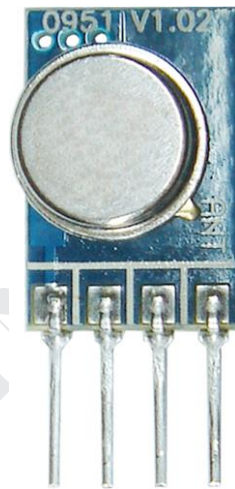


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## Wireless Hi Power Transmitter Module (RF ASK)

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### Version History

| Version | Date          | Changes                   |
|---------|---------------|---------------------------|
| V1.01   | Mar. 01, 2002 | 1 <sup>st</sup> . Edition |
| V1.02   | Jul. 05, 2008 | 2 <sup>nd</sup> . Edition |
| V1.03   | Oct. 20, 2010 | 3 <sup>rd</sup> . Edition |

### Model : TWS-BS-3

- Frequency Range: 315MHz
- Modulate Mode: ASK
- Circuit Shape: SAW
- Data Rate: 8Kbps
- Supply Voltage: 1.5~12V
- Output Power : 14dBm
- Working temperature: -20~+85℃
- Solder temperature: 230℃(10 seconds).
- High sensitivity is designed.

### Application

|                                |                        |
|--------------------------------|------------------------|
| ● Wireless Data Transmission   | ● Wireless Game Pad    |
| ● Remote Control               | ● Wireless Toys        |
| ● Car Key                      | ● Home Automation      |
| ● AMR- Automatic Meter Reading | ● Remote Keyless Entry |

### Absolute Maximum Rating

| Rating                                  | Value      | Unit |
|---|------------|------|
| Power Supply and All Input/ Output Pins | -0.3~+12.0 | V    |
| Non-Operating Case Temperature          | -20~+85    | ℃    |
| Soldering Temperature(10 seconds)       | 230        | ℃    |

## Electrical Characteristic

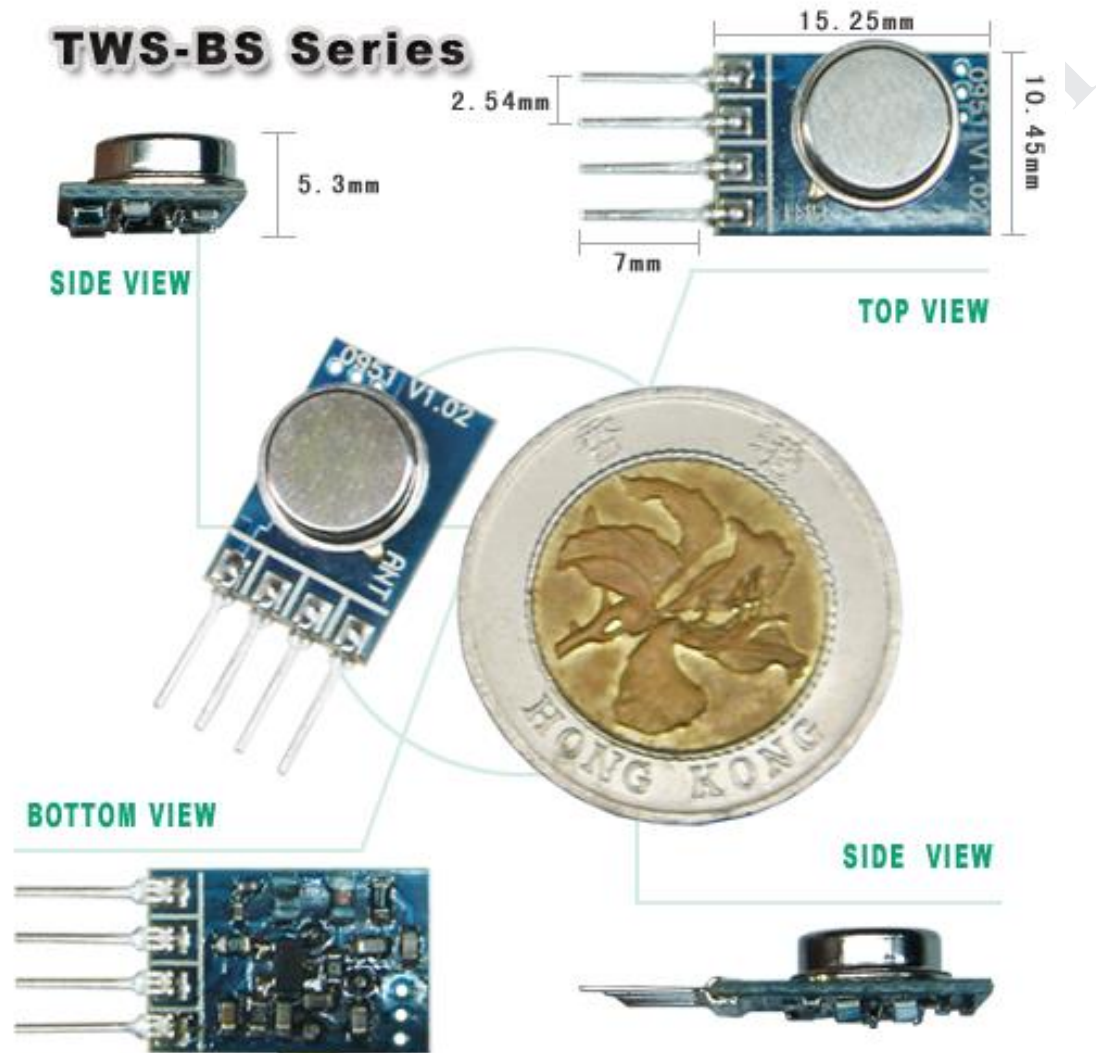
| Characteristic                                 | Min    | Type   | Max    | Unit               |
|--|--------|--------|--------|--------------------|
| Operating Frequency<br>( $\pm 250\text{KHz}$ ) | 314.75 | 315.00 | 315.25 | MHz                |
| Data Rate                                      |        |        | 8      | Kbps               |
| Current Consumption                            |        |        | 8      | mA                 |
| Output Power                                   |        |        | 32     | mW                 |
| Operating Voltage                              | 3      |        | 12     | VDC                |
| Operating Ambient Temperature                  | -20    |        | +85    | $^{\circ}\text{C}$ |

## Pin Assignment

| Pin | Function |
|-----|----------|
| 1   | GND      |
| 2   | Data in  |
| 3   | Vcc      |
| 4   | ANT      |



## Size



## Demo Circuit

