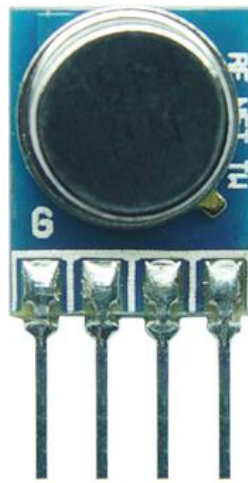


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## Wireless Hi Power Transmitter Module (RF ASK)

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### Version History

Version	Date	Changes
V1.01	May. 20, 2009	1 <sup>st</sup> . Edition
V1.02	Mar. 03, 2011	2 <sup>st</sup> . Edition

## Model : TWS-DS-2

- Frequency Range: 310 MHz
- Modulate Mode: ASK
- Circuit Shape: SAW
- Data Rate: 8Kbps
- Supply Voltage: 1.5~12V
- Electric Current: 23mA (5V) ; 40mA (9V) ; 53mA (12V)
- Power: 10dBm (5V) ; 14.5dBm (9V) ; 20dBm (12V)
- Working temperature: -20~+85°C
- Solder temperature: 230°C (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

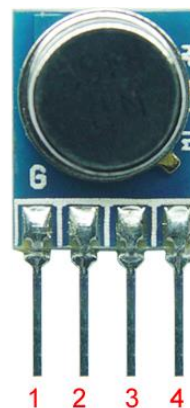
Rating	Value	Unit
Power Supply and All Input/ Output Pins	-0.3~+12.0	V
Non-Operating Case Temperature	-20~+85	°C
Soldering Temperature(10 seconds)	230	°C

## Electrical Characteristic

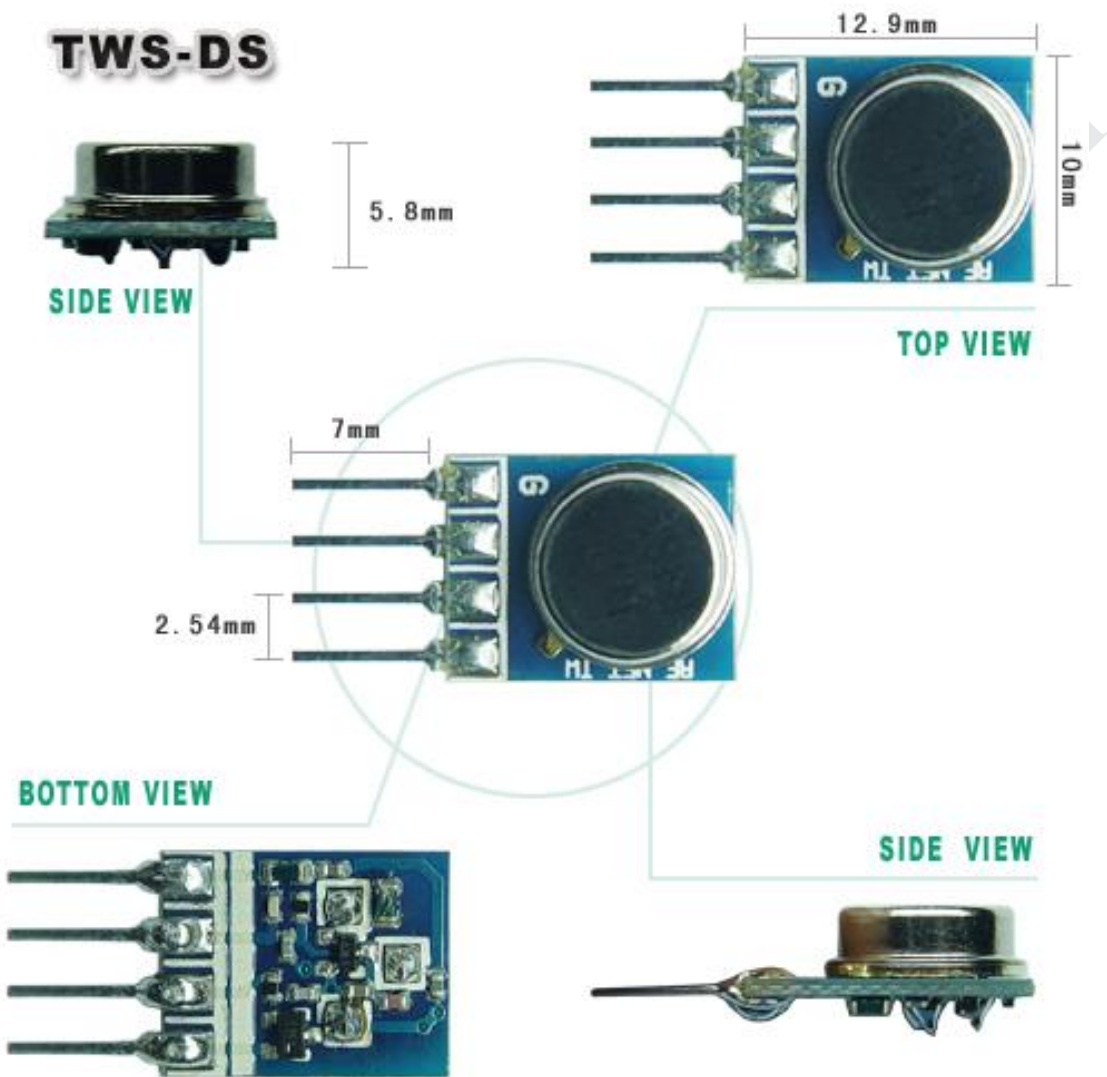
Characteristic	Sym	Min	Type	Max	Unit
Operating Frequency ( $\pm 250\text{KHz}$ )	Vcc	309.75	310.00	310.25	MHz
Data Rate	ASK			8	Kbps
Transmitter Performance(OOK@2.4Kbps)					
Peak Input Current, 12Vdc Supply	ITP			53	mA
Peak Output Power (20dBm)	PO		10	40	mW
Turn On/ Turn Off Time	T ON/ T OFF			40	US
Power Supply Voltage Range	Vcc	1.5		12	Vdc
Operating Ambient Temperature	TA	-20		+85	°C
Tx Antenna Out (3V) +2.4dBm	Vcc				mA

## Pin Assignment

Pin	Function
1	GND
2	Data in
3	Vcc
4	ANT



## Size



## Demo Circuit

**DEMO Operating voltage 2V~6V**

