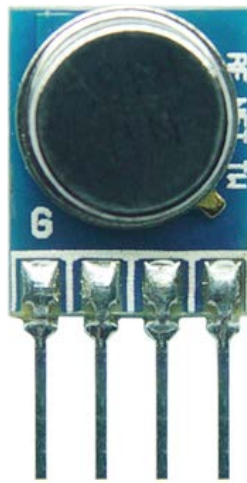

Wireless Hi Power Transmitter Module (RF ASK)



Version History

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

➤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

➤Model : TWS-DS-1

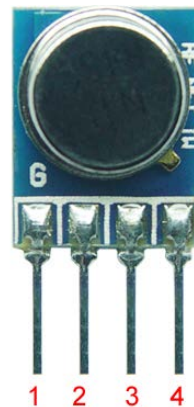
- Frequency: 303.875MHz
- Modulate Mode: ASK
- Circuit Shape: SAW
- Data Rate: 8Kbps
- Supply Voltage: 1.5~12V
- Electric Current: 23mA (5V) ; 40mA (9V) ; 53mA (12V)
- Power: 10dBm (5V) ; 14.5dBm (9V) ; 20dBm (12V)
- Working temperature: -20 ~ +85°C
- Solder temperature: 230°C (10 seconds).
- High sensitivity is designed.

➤Electrical Characteristic

Characteristic	Min.	Typ.	Max.	Unit
Operating Frequency ($\pm 250\text{KHz}$)	303.625	303.875	304.125	MHz
Data Rate			8	Kbps
Transmitter Performance (OOK@2.4Kbps)				
Peak Input Current, 12Vdc Supply			53	mA
Peak Output Power (20dBm)		10	40	mW
Turn On/ Turn Off Time			40	US
Power Supply Voltage Range	1.5		12	Vdc
Operating Ambient Temperature	-20		+85	°C
Tx Antenna Out (3V) +2.4dBm				mA

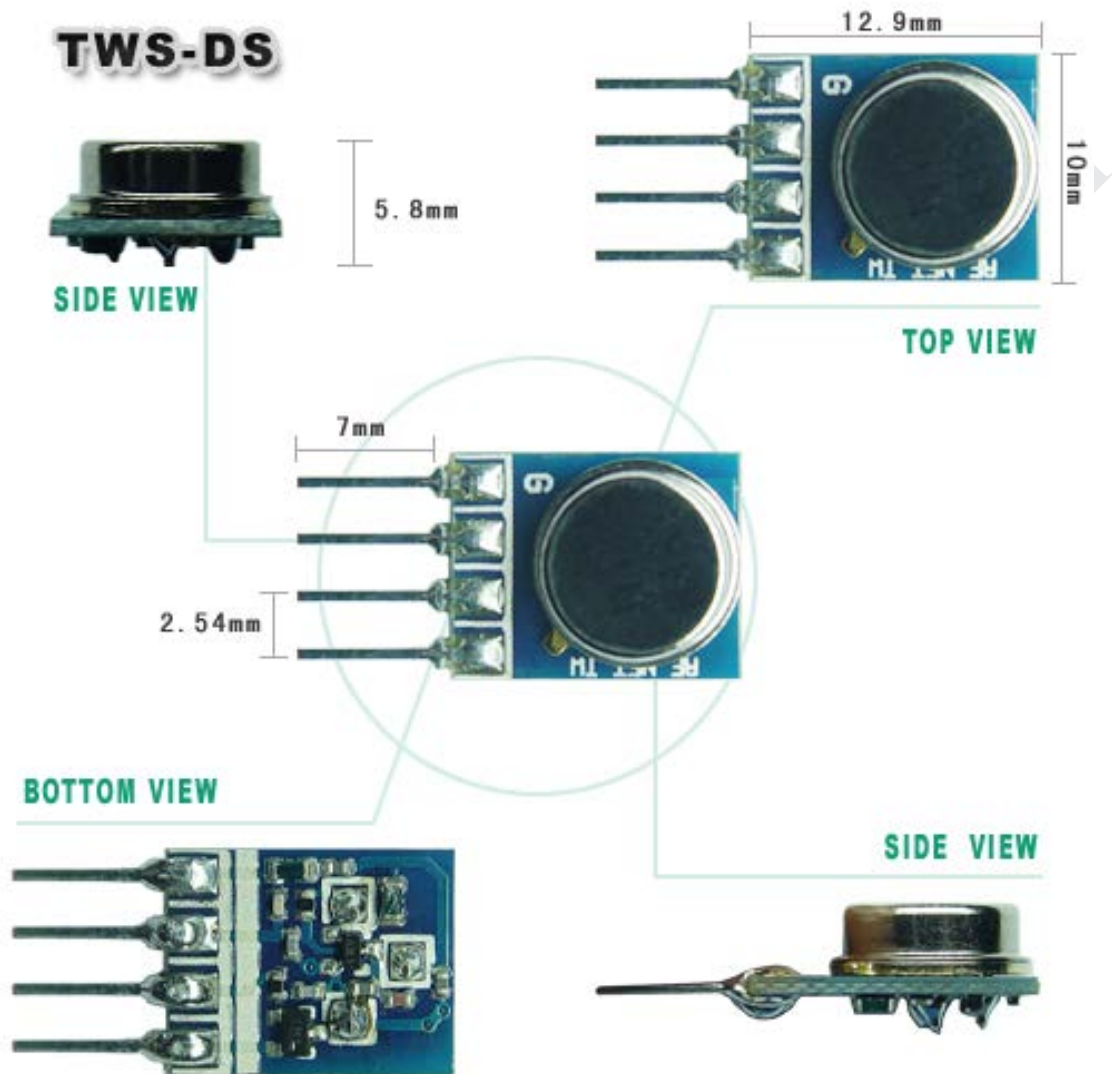
➤Pin Assignment

Pin	Function
1	GND
2	Data in
3	Vcc
4	ANT



➤Dimension

(unit : mm)



➤Demo Circuit

DEMO Operating voltage 2V~6V

