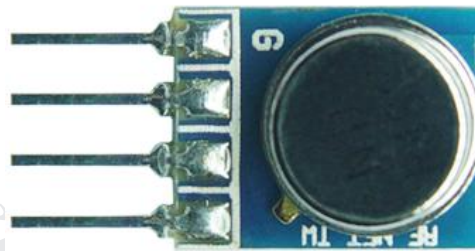

418MHz Wireless Transmitter RF Module (ASK)

Applications:

- *Wireless Keyboard and Mouse*
- *Remote Control*
- *CAR KEY*
- *AMR – Automatic Meter Reading*
- *Wireless Game Pad*
- *Wireless Toys*
- *Home Automation*
- *Remote Keyless Entry*



Instruction Manual Revision History

Version	Date	Changes
V1.01	May 20, 2009	First Edition

Key Features :

➤ **Model : TWS-DS-4(418MHz)**

*Frequency Range: 418 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) ; 16.6dBm (12V)

*Working temperature: -40 ~ +85°C

*Solder temperature: 230°C(10 seconds)

*High sensitivity is designed

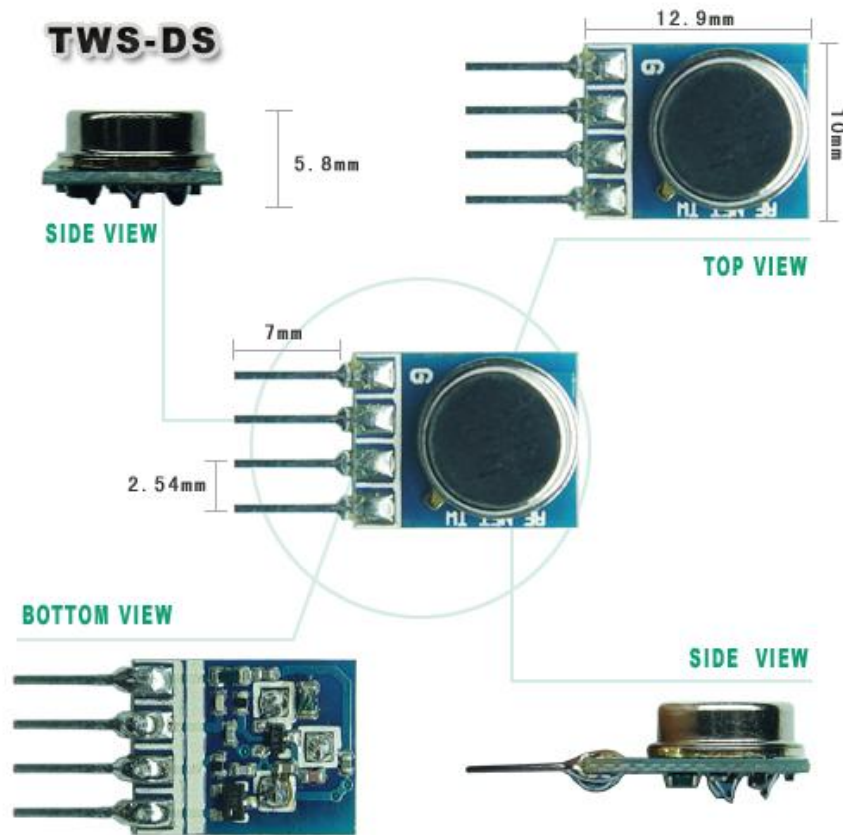
➤ **Absolute Maximum Ratings:**

Rating	Value	Unit
Power Supply and All Input/Output Pins	-0.3 ~ +12.0	V
Non-Operating Case Temperature	-40 ~ +85	°C
Soldering Temperature(10 seconds)	230	°C

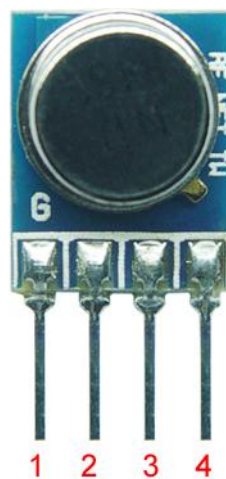
➤ **Electrical Characteristics, T=25°C , Vcc=3.6V, Fre=418MHz:**

Characteristic	Sym	Min	Typ	Max	Unit
Operating Frequency ($\pm 300\text{KHz}$)	VCC		418		MHz
Data Rate	ASK			8	Kbps
Transmitter Performance(OOK@2.4Kbps)					
Peak Input Current,12 Vdc Supply	ITP			53	mA
Peak Output Power (16.6dBm)	PO		10	40	mW
Tum On/ Tum Off Time	T ON/T OFF			40	US
Power Supply Voltage Range	VCC	1.5		12	VDC
Operating Ambient Temperature	TA	-40		+85	°C
Tx Antenna Out (3V) +2.4dBm	VCC				mA

➤ **Size:**



➤ **Pin Assignment:**



Pin	Function
1	GND
2	Data In
3	VCC
4	ANT

➤ Demo Circuit:

DEMO Operating voltage 2V~6V

