TWS-DS RF MODULE Series

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

Model: TWS-DS-5

Frequency Range: 418 MHz

Modulate Mode: ASKCircuit Shape: SAWDate 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℃

• 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	$^{\circ}$	
Soldering Temperature(10 seconds)	230	°C	

Electrical Characteristic

Characteristic	Sym	Min	Туре	Max	Unit
Operating Frequency (±250KHz)	Vcc	417.75	418.00	418.25	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	$^{\circ}$
Tx Antenna Out (3V) +2.4dBm	Vcc				mA

Pin Assignment

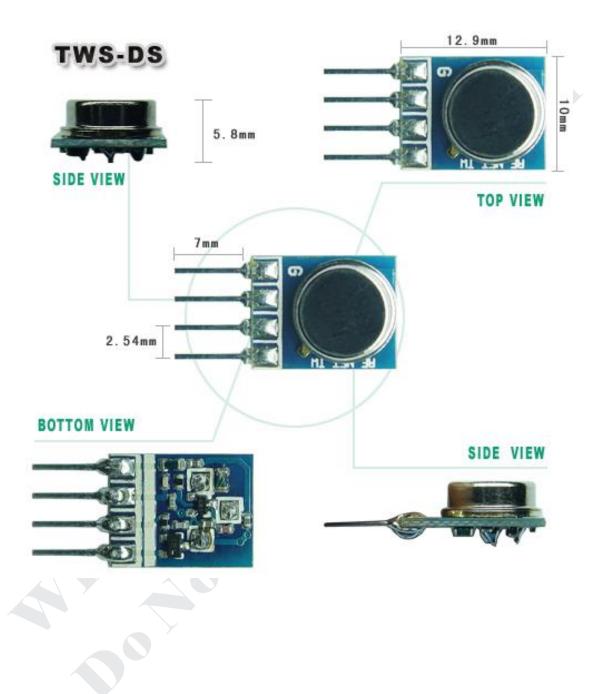
Pin	Function
1	GND
2	Data in
3	Vcc
4	ANT



http://www.wenshing.com.tw; http://www.rf.net.tw

TWS-DS Series Datasheet P.3

Size



Demo Circuit

