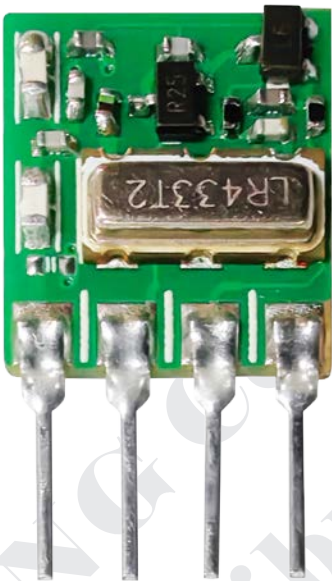


Wireless Hi Power Transmitter Module (RF ASK)



Application

● Wireless Data Transmission	● Industrial Control
● Remote Control	● Wireless Toys
● Car Key	● Home Automation
● Smart Agriculture	● Wireless Game Pad

Version History

Version	Date	Changes
V1.01	Apr 13, 2024	1 st . Edition

Model : TWS-FS

- Frequency Range: 433.92MHz
- 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)

Absolute Maximum Rating

Rating	Value	Unit
Power Supply and All Input / Output Pins	1.5~+12.0	V
Non-Operating Case Temperature	-20~+85	°C
Soldering Temperature (10 seconds)	230	°C

Pin Assignment

Pin	Function
1	GND
2	DATA IN
3	VCC
4	ANT



Electrical Characteristic

Characteristic	Sym.	Min.	Type.	Max.	Unit
Operating Frequency ($\pm 250\text{KHz}$)	Vcc	433.67	433.92	434.17	MHz
Data Rate	ASK			14	Kbps
Transmitter Performance (OOK@2.4Kbps)					
Peak Input Current, 12Vdc Supply	ITP			38	mA
Peak Output Power (18.5dBm)	PO		79.43		mW
Turn On/ Turn Off Time	T ON T OFF			10	US
Power Supply Voltage Range	Vcc	1.5		12	Vdc
Operating Ambient Temperature	TA	-20		+85	°C
Tx Antenna Out (3V) +6dBm	Vcc		9.6		mA

Demo Circuit

DEMO Operating voltage 2V~6V

