

RX433

The RF module's frequency is from UHF ASK 300MHz to 434MHz

High sensitivity passive design

4800 B/S baseboard data rate

simple to apply with low external parts count

Low supply voltage Vcc = 5VDC

ASK Data Shaping Comparator Included

DC Characteristics

	Parameter	Conditions	Min	Typ	Max	Unit
Vcc	Operating Supply Voltage		4,9	5	5,1	V
I tot	Operating Supply Voltage		-	4,5	-	mA
V data	Data Out	I Data = -200 μ Ai	Vcc - 0,5		Vcc	V
		I Data = -10 μ A (low)	-		0,3	V

Electrical Characteristics

Characteristics	SYM	Min	Typ	Max	Unit
Operating Radio Frequency	Fc	300-434			MHz
Sensitivity	Pref.			-108	dBm
Channel Width		=+/- 500			kHz
Noise Equivalent BW	NEB.		5	4	kHz
Baseboard data rate				3	kb/s
Receiver turn on time				5	ms

TX433

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The RF module's frequency depends on the quartz surface acoustic wave (saw) of different frequency . The following space is suitable for any frequency.

Electrical Characteristics

Symbol	Characteristics	Conditions	Min	Typ	Max	Unit
Vcc	Operating Supply Voltage		1,5		12	V
Icc	Peak Current			5	9	mA
Vih	Input Low Voltage	I Data = 100 μ A (High)	Vcc-0,5		Vcc	V
Vil	Absolute Frequency	I Data = 0 μ A (Low)			0,3	V
Fo	Relative to 433.92MHz		314,8	315	315,2	MHz
Dfo	RF Out power into 500ohm			=+/-150	=+/-200	kHz
Po	Modulation bandwidth	External Cording	-3	0	2	dBm
				5		kHz
Tr	Modulation Rise tme				100	μ s
Tf	Modulation Fall time				100	μ s

Notes : (case temperature = /25°C, test load impedance = 50ohm and modulation input is at logic high Low unless noted otherwise)
The RF module not included digital encoder.

Caution : Electrostatic sensitive device. Observe precautions for handling.