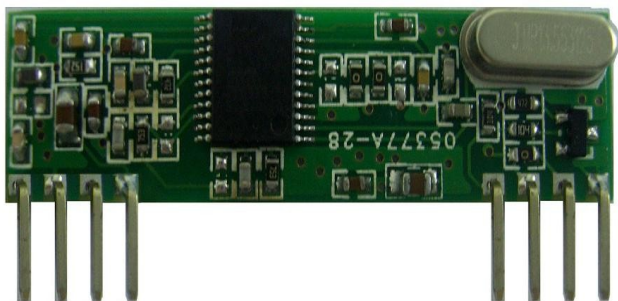


RCT01TRXB03-XXX-Y

ASK/FSK Superhet Receiver

General Discription:



The RCT01TRXB03-XXX is a ASK/FSK compatiabie superhet receiver. Which is designed with high sensitivity, long distance, easy use for designing.

XXX: Customer specifined frequency
(315,433.92MHz or others)

Y: modulation mode
A AM/ASK receive mode
FM/FSK receive mode

F

Product Key Features:

- \$ Frequency: 315MHz/433.92MHz (others are available);
- \$ High sensitivity -116dBm (ASK) , -115dBm (FSK);
- \$ supply voltage: VCC= 3.0 to 5.5 V;
- \$ IF band: 220KHz;
- \$ low power cosumption: Icc=6.3mA (FM mode, Vcc=5.0V@434MHz);
- \$ Consumption current during BS (battery saving) mode: 0uA (typ.);
- \$ Easy for application;
- \$ Wide operating temperature;
- \$ Fast response time.

Product Application:

- * Remote gate controls
- * Remote keyless entry
- * Car alarm systems
- * wireless security systems
- * Automation systems

Electrical Characteristics:

Condition: Ta=25°C Vcc=5.0V Frequency=433MHz

Characteristics	Min	Typ	Max	Unit	Note
F _c Carrier Frequency	430	433.92	435	MHz	IF = 220kHz
V _{cc} Supply Voltage	3.0	5.0	5.5	V	5.0v at default
I _s Supply current	4.6	6.1	7.6	mA	ASK
	4.7	6.3	7.9		FSK
Modulation Mode	ASK/FSK				
RF sensitivtity		-116		dBm	600bps(Manchester), dev=±40kHz
F _{dev} Frequency Deviation		±40kHz			
B _w -3dB Bandwidth		250		KHz	
Datarate		2.4	9.6	kbps	At default
T _{on} Turn on time from sleep			3	ms	
V _{IL} “L”level input/output level	0		0.2	mA	
V _{IH} “H”level input/output level	2.0		5.5	V	
Output leak current (H level)		0	2	μA	
V _{DATAL} Output voltage (L level)			0.4	V	I _{DATAL} = 200μA
DR Wave shaping output duty ratio	45	50	55	%	V _{IN} (MIX) = 60dBmVEMFF or single tone
I _{RR} Image Suppression Ratio		35		dB	
T _{op} Opertaing Temperature Range	-40		+85	°C	

Condition: Ta=25°C Vcc=5.0V Frequency=315MHz

Characteristics	Min	Typ	Max	Unit	Note
F _c Carrier Frequency	310	314.98	316	MHz	IF = 220kHz
V _{cc} Supply Voltage	3.0	5.0	5.5	V	5.0v at default
I _s Supply current	4.3	5.7	7.1	mA	ASK
	4.5	5.9	7.3		FSK
Modulation Mode	ASK/FSK				
RF sensitivtity		-115		dBm	600bps(Manchester), dev=±40kHz
F _{dev} Frequency Deviation		±40kHz			
B _w -3dB Bandwith		250		KHz	
Datarate		2.4	9.6	kbps	
T _{on} Turn on time from sleep			3	ms	
V _{IL} “L”level input/output level	0		0.2	mA	
V _{IH} “H”level input/output level	2.0		5.5	V	
Output leak current (H level)		0	2	μA	
V _{DATAL} Output voltage (L level)			0.4	V	I _{DATAL} = 200μA
DR Wave shaping output duty ratio	45	50	55	%	V _{IN} (MIX) = 60dBmVEMFF or single tone
I _{RR} Image Suppression Ratio		35		dB	
T _{op} Opertaing Temperature Range	-40		+85	°C	

Mechanical Dimintions:

Pin Discription:

