

Radio Transmitter



RTFQ1-XXX

FSK Radio Transmitter with Crystal Oscillator and External Antenna



General description

The RTFQ1-XXX is an hybrid circuit that allows to realize a complete radio transmitter adding a coding circuit.

It shows stable electric characteristics thanks to the "Thick film hybrid" technology.

XXX : working frequency (315, 433.92, 868.35 MHz)

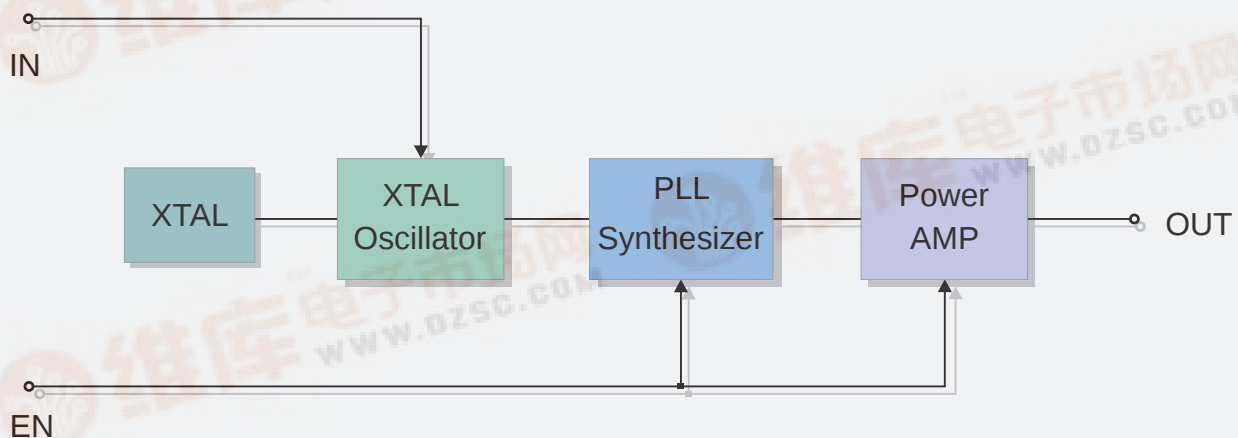
Features

- High Reliability
- DIL Package

Applications

- Wireless security systems
- Car Alarm systems
- Remote gate controls
- Sensor reporting

BLOCK DIAGRAM



Electrical Characteristics

Ta = 25°C unless otherwise specified

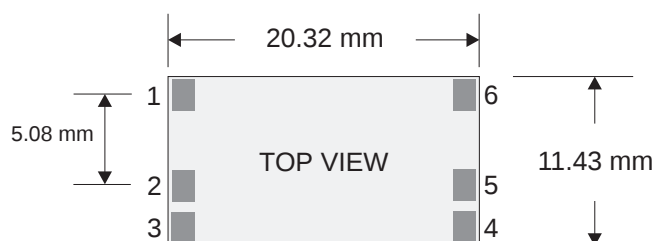
CHARACTERISTICS	MIN	TYP	MAX	UNIT
V _{CC} Supply Voltage	2.2	3.3	4	VDC
I _S Operating Supply Current		7	8	mA
I _{STANDBY} Standby Supply Current (IN = EN = Low)			100	nA
F _W Working Frequency		433.9/868.35		MHz
Initial Frequency Accuracy	-25	0	+25	KHz
FM Deviation (+/-)	25	30	35	KHz
P _O RF Output Power into 50Ω (V _{CC} = 3.3V)		+5 / +1		dBm
Harmonic Spurious Emission		-40		dBc
V _{IH} Input High Voltage	1.5		V _{CC}	V
Max Data Rate			9.6	Kbps
Power-Up Time (EN → full RF)			1	msec
T _{OP} Operating Temperature Range	-25		+80	°C

EN	IN	STATE
L	L	Power Down Mode
H	L	PLL Enable Mode
H	H	Transmit Mode

Pin Description

1	EN	Enable	4	V _{CC}	Supply Voltage
2	IN	Data In	5	GND	Ground
3	GND	Ground	6	EA	External Antenna

Mechanical Dimensions



TYPICAL APPLICATION

