

RTQ4-XXX

ASK Radio Transmitter with Crystal Oscillator and External Antenna

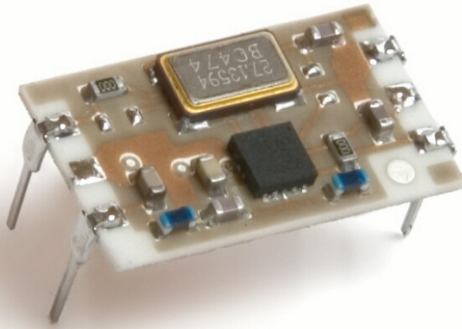
General description

The RTQ4-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 (433.92, 868.35, 920 MHz)

Pin out compatible with RT4 Transmitter



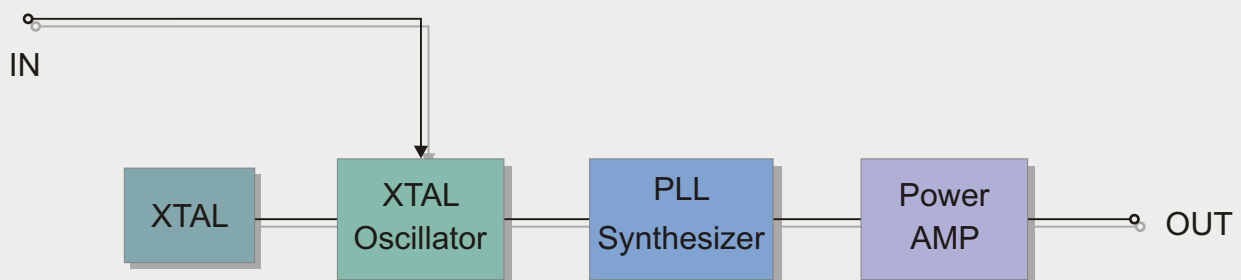
Features

- High Reliability
- DIL Package

Applications

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

BLOCK DIAGRAM



Electrical Characteristics

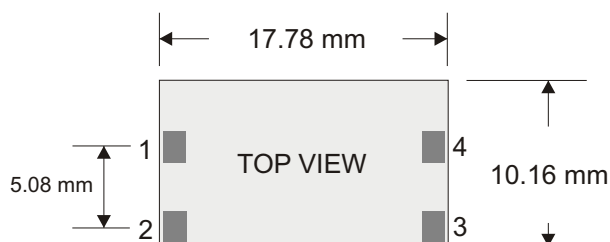
Ta = 25°C unless otherwise specified

CHARACTERISTICS		MIN	TYP	MAX	UNIT
V _{CC}	Supply Voltage	1.9		5.5	VDC
I _s	Supply Current (V _{CC} =5V IN=1KHz Square Wave)		9		mA
F _w	Working Frequency		433.92 / 868.35		MHz
	Frequency Accuracy		+/- 35		KHz
P _O	RF Output Power into 50Ω (V _{CC} = 5V)	+4	+7		dBm
	Harmonic Spurious Emission		-50		dBc
V _{IL}	Input Low Voltage			0.3*V _{CC}	V
V _{IH}	Input High Voltage	0.7*V _{CC}			V
	Max Data Rate			9.6	Kbit/s
	Power-Up Time (V _{CC} → full RF)			1	msec
T _{OP}	Operating Temperature Range	-25		+80	°C

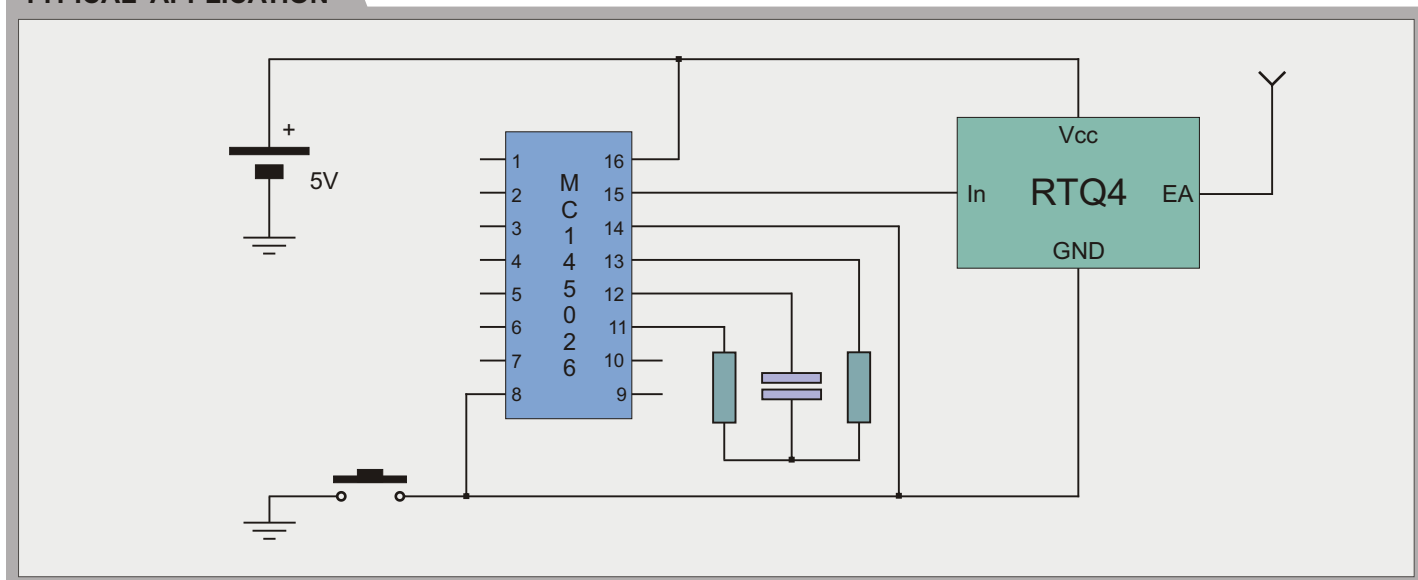
Pin Description

1	V _{CC}	Supply Voltage
2	GND	Ground
3	IN	Modulation Input
4	EA	External Antenna

Mechanical Dimensions



TYPICAL APPLICATION



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