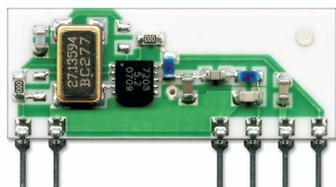


## RTQ8-XXX

### ASK Radio Transmitter with Crystal Oscillator and External Antenna



#### General description

The RTQ8-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 ( 868.35 Mhz - 868.95Mhz)

Pin out compatible with RT11 Transmitter

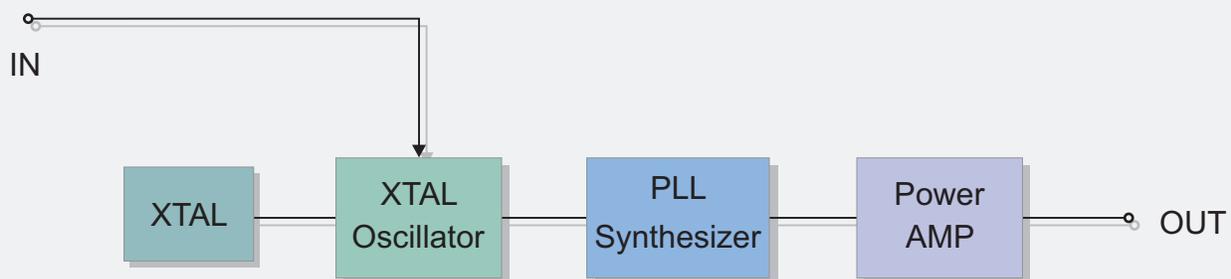
#### Features

- High Reliability
- DIL Package

#### Applications

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

#### BLOCK DIAGRAM



## Electrical Characteristics

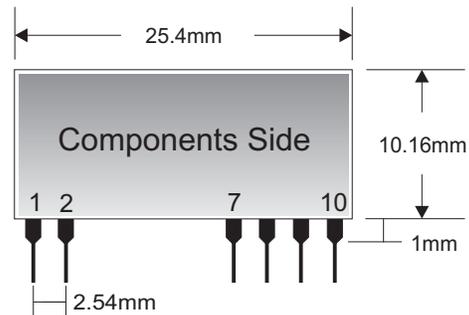
Ta = 25°C unless otherwise specified

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

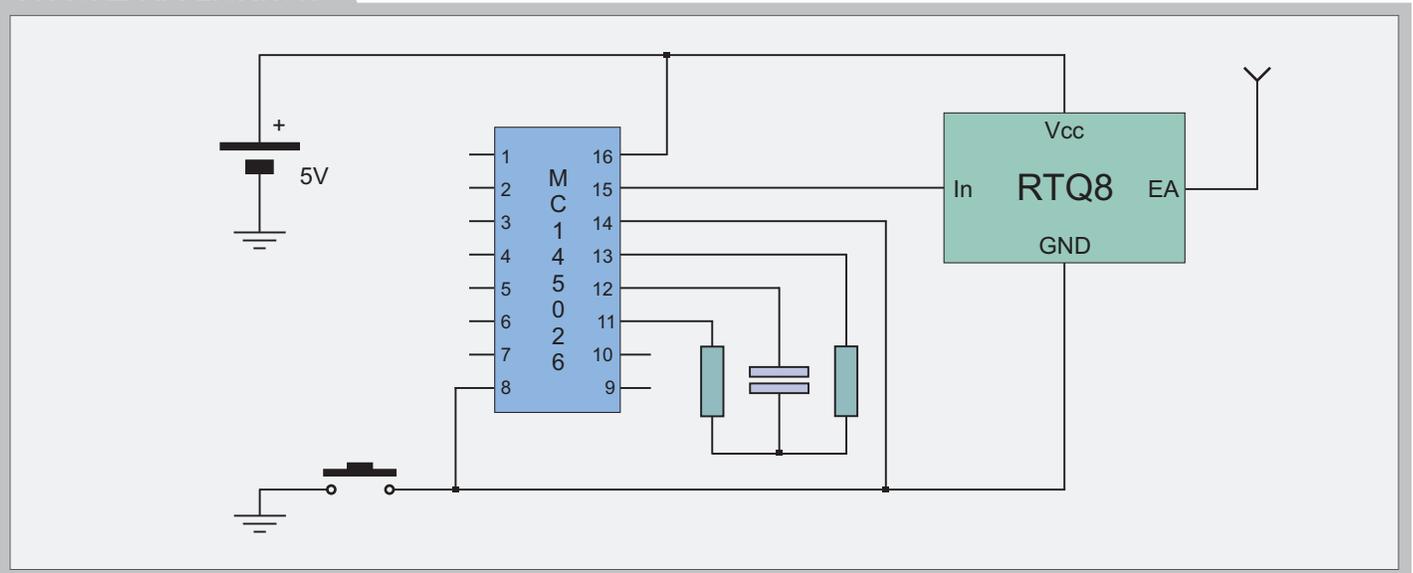
## Pin Description

1	IN	Modulation Input
2	GND	Ground
7	GND	Ground
8	EA	External Antenna
9	GND	Ground
10	V <sub>CC</sub>	Supply Voltage

## Mechanical Dimensions



## TYPICAL APPLICATION



Telecontrolli Srl has an on going policy to improve the performance and reliability of their products; we therefore reserve the right to make changes without notice. The information contained in our data sheets is believed to be accurate, however we do not assume any liability arising from the application or use of any product or circuit.



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