

RTQ4-XXX

ASK Radio Transmitter with Crystal Oscillator and External Antenna

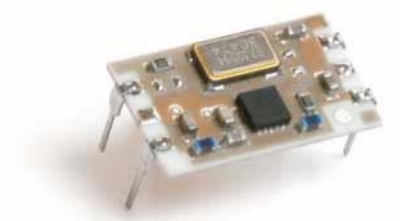
General description

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, 915 MHz)

Pin out compatible with RT4 Transmitter



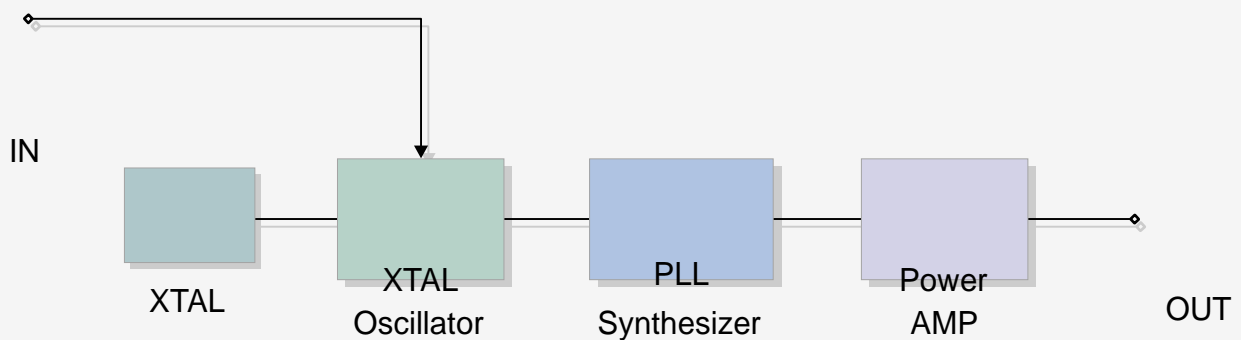
Features

- High Reliability
- DIL Package

Applications

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

BLOCK DIAGRAM



Electrical Characteristics

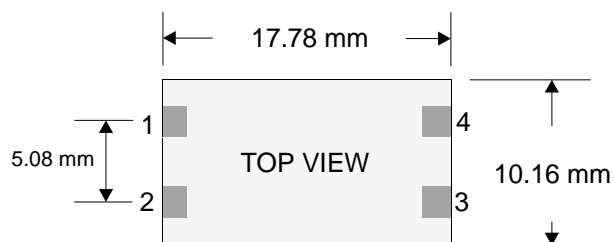
Ta = 25°C unless otherwise specified

| CHARACTERISTICS | | MIN | TYP | MAX | UNIT |
|-----------------|--|---------------------|----------------|---------------------|--------|
| V _{CC} | Supply Voltage | 1.9 | | 5.5 | VDC |
| I _S | Supply Current (V _{CC} =4V IN=1KHz Square Wave) | | 12 | | mA |
| F _W | Working Frequency | | 433.9 / 868.35 | | MHz |
| P _O | RF Output Power into 50Ω (V _{CC} = 4.0V) | +5 | +7 | | dBm |
| | Initial Frequency Accuracy | -35 | 0 | +35 | KHz |
| | 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

