

RT4-XXX

Radio Transmitter Module with SAW Resonator and External Antenna



General description

The RT4-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, 418, 433.92 MHz)

I-ETS 300 220 Compliance (RT4-433.92-IETS)

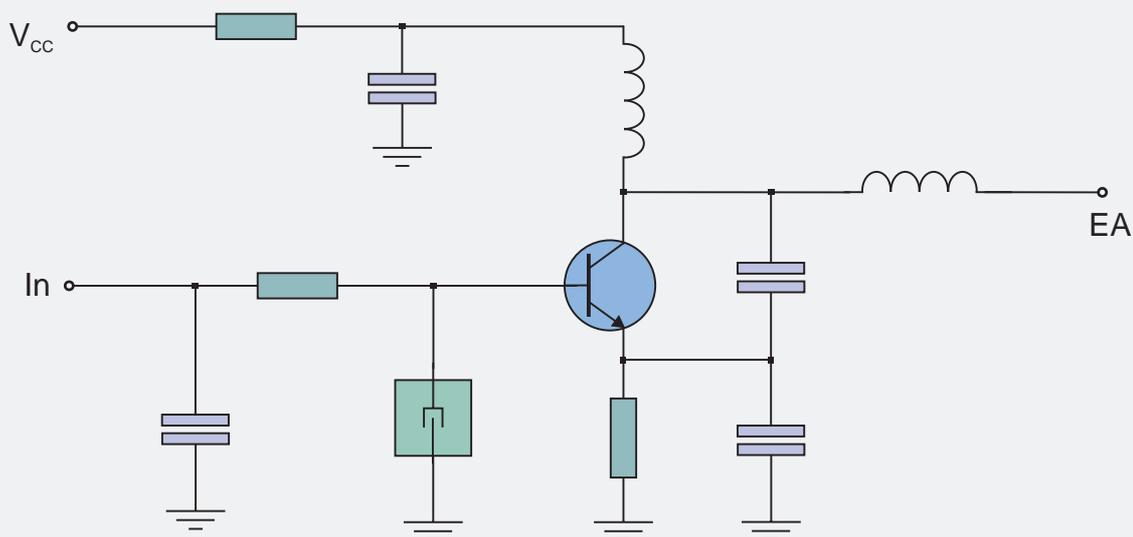
Features

- High Reliability
- DIL Package

Applications

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

CIRCUIT SCHEMATIC



Electrical Characteristics

Ta = 25°C unless otherwise specified

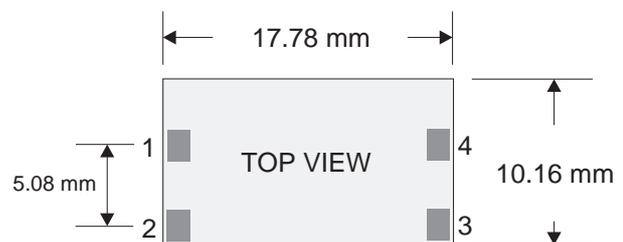
CHARACTERISTICS		MIN	TYP	MAX	UNIT
V _{CC}	Supply Voltage	2		14	VDC
I _S	Supply Current (V _{CC} =5V IN=1KHz Square Wave)		4		mA
F _W	Working Frequency	303.8		433.92	MHz
P _O	RF Output Power into 50Ω (Vi=5V, V _{CC} =12V)		7	10	dBm
	Harmonic Spurious Emission		-30		dBc
V _{IH}	Input High Voltage	2		V _{CC}	V
	Max Data Rate			4	KHz
T _{OP}	Operating Temperature Range	-25		+80	°C

Typically, equipment utilizing this device requires emissions testing and government approval, which is the responsibility of the equipment manufacturer.

Pin Description

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

Mechanical Dimensions



TYPICAL APPLICATION

