Radio Transmitter

RT5-XXX

Radio Transmitter Module with SAW Resonator and External Antenna

General description

The RT5-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

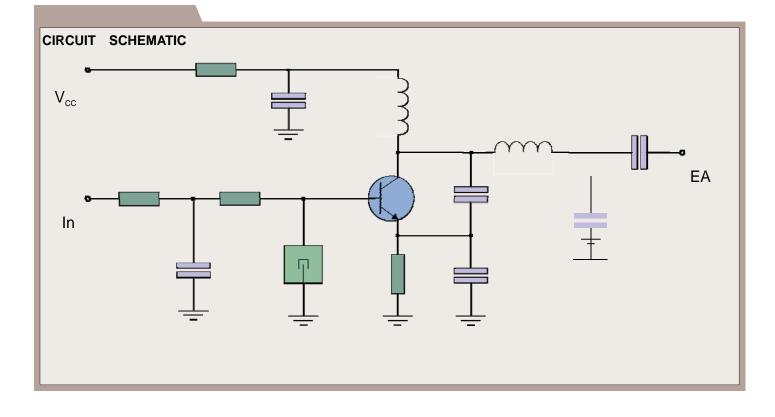
"Thick film hybrid" technology.

XXX : working frequency (315, 418, 433.92 MHz)

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

Applications

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





Features

- High Reliability
- SIL Package

Electrical Characteristics

I Gharacteristics	Ta = 25°C unless otherwise specified			
CHARACTERISTICS	MIN	TYP	MAX	UNIT
Supply Voltage	2		14	VDC
Supply Current (Vcc=5V IN=1KHz Square Wawe		3		mA
Working Frequency	303.8		433.92	MHz
RF Output Power into 50Ω (Vi=5V, Vcc=12V)		7	10	dBm
Harmonic Spurious Emission		-35		dBc
Input High Voltage	2		V _{cc}	V
Max Data Rate			4	KHz
Operating Temperature Range	-25		+80	°C
	CHARACTERISTICS Supply Voltage Supply Current (Vcc=5V IN=1KHz Square Wawe Working Frequency RF Output Power into 50Ω (Vi=5V, Vcc=12V) Harmonic Spurious Emission Input High Voltage Max Data Rate	CHARACTERISTICSMINSupply Voltage2Supply Current (Vcc=5V IN=1KHz Square Wawe2Working Frequency303.8RF Output Power into 50Ω (Vi=5V, Vcc=12V)4Harmonic Spurious Emission2Input High Voltage2Max Data Rate4	CHARACTERISTICSMINTYPSupply Voltage22Supply Current (Vcc=5V IN=1KHz Square Wawe3Working Frequency303.87RF Output Power into 50Ω (Vi=5V, Vcc=12V)7Harmonic Spurious Emission-35Input High Voltage2Max Data Rate1	CHARACTERISTICSMINTYPMAXSupply Voltage214Supply Current (Vcc=5V IN=1KHz Square Wawe314Working Frequency303.8433.92RF Output Power into 50Ω (Vi=5V, Vcc=12V)710Harmonic Spurious Emission-35VccInput High Voltage2VccMax Data Rate44

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

Pin Description

EA	External Antenna
IN	Modulation Input
GND	Ground
VCC	Supply Voltage
	IN GND

Mechanical Dimensions

