

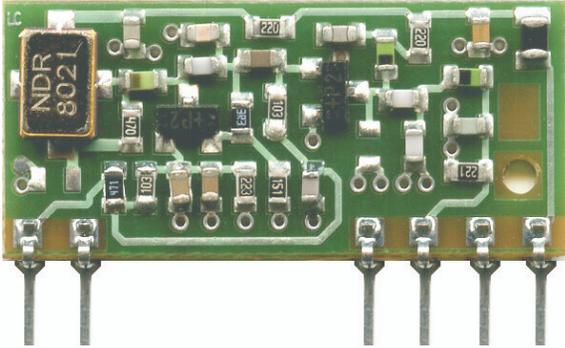
RT13-868.35

868.350 MHz Radio Transmitter Module with
SAW Resonator and External Antenna

General description

The RT13 is a SAW stabilized ASK (OOK) transmitter. For a better stability and modulation it employs a two transistor design: an oscillator and a separate power amplifier.

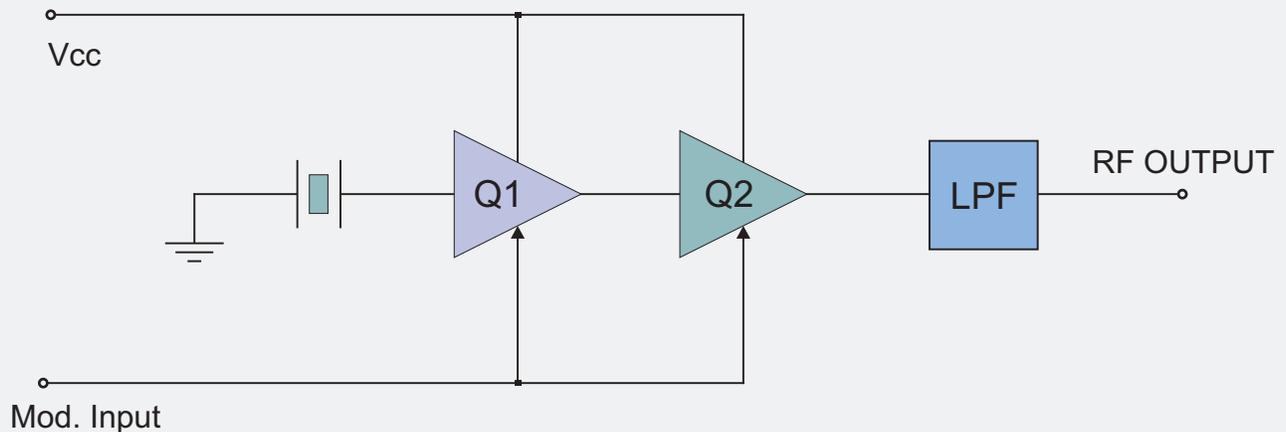
The RT13 is provided by a low-pass filter to attenuate the harmonic emissions.



Applications

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

CIRCUIT SCHEMATIC



Electrical Characteristics

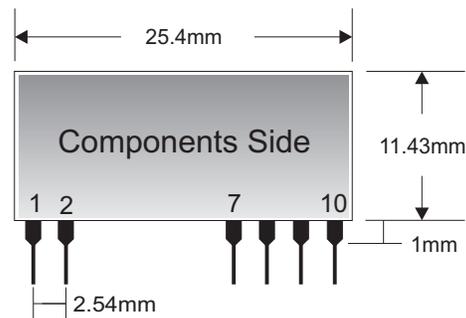
Ta = 25°C unless otherwise specified

CHARACTERISTICS		MIN	TYP	MAX	UNIT
V _{cc}	Supply Voltage	2.5		9.0	VDC
I _{cc}	Supply Current (V _{cc} =5V IN=1KHz Square Wave)		18		mA
F _w	Working Frequency		868.350		MHz
	Frequency Accuracy		+/- 100	+/- 150	KHz
P _o	RF Output Power into 50Ω (V _{cc} =V _{in} =5V)	7	9		dBm
	Harmonic Spurious Emission		-45		dBc
	Max Data Rate			9.6	Kbit/s
T _{OP}	Operating Temperature Range	-25		+80	°C

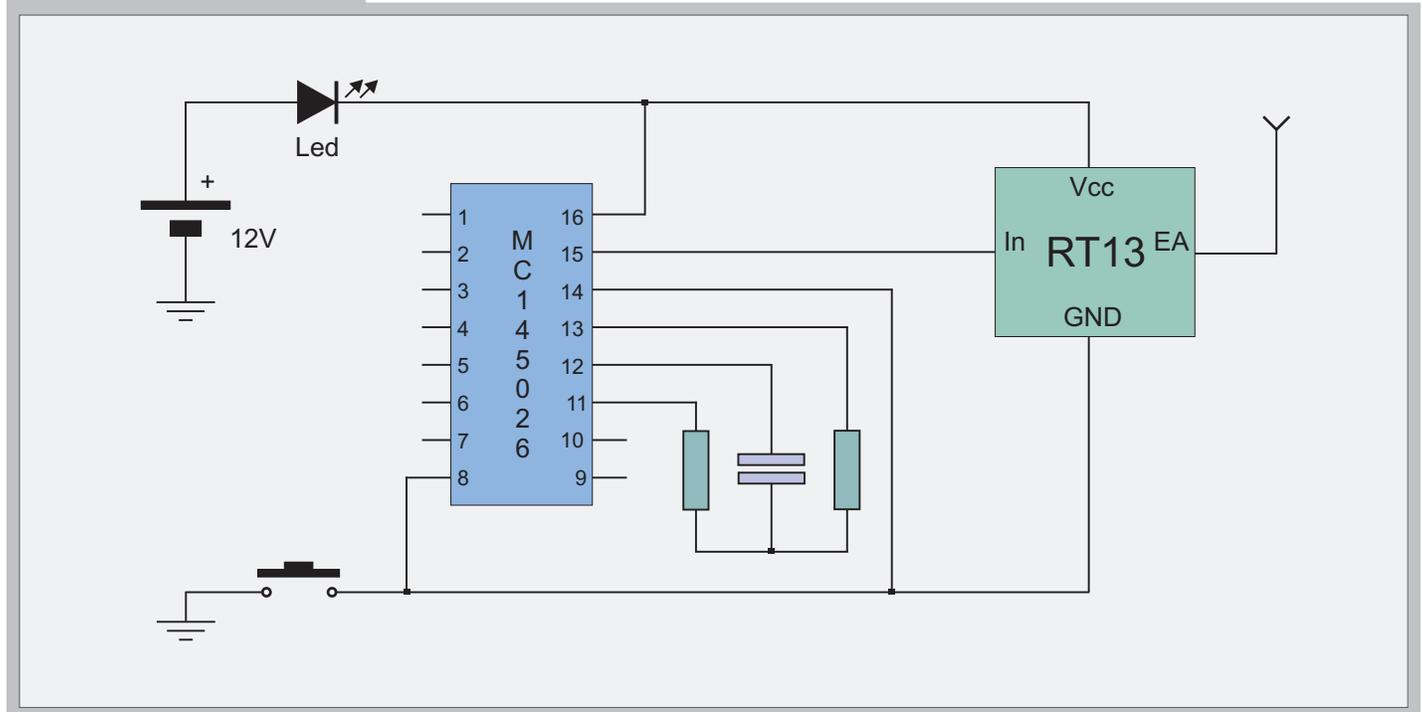
Pin Description

1	IN	Modulation Input
2	GND	Ground
7	GND	Ground
8	EA	External Antenna
9	GND	Ground
10	V _{cc}	Supply Voltage

Mechanical Dimensions



TYPICAL APPLICATION



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