

# 433 MHz ASK transmitter with integrated antenna

## TX-434-SMALL-IA

P.N. 650201460G

### DESCRIZIONE

Trasmittitore in tecnologia SMT con antenna integrata operante a 433MHz in modulazione ASK.

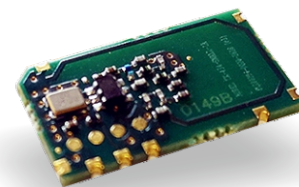
Componente ideale da integrare su radiocomandi e circuiti di piccole dimensioni.

### DESCRIPTION

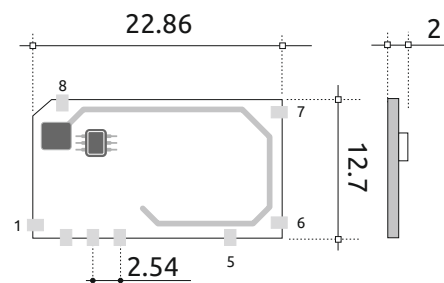
SMT transmitter with integrated antenna, operating at 434 MHz in ASK modulation.

Ideal to be integrated in Key fobs, small hardware and portable devices.

### COMPONENT SIDE



### DIMENSIONS



### PIN-OUT

- 1) GND
- 2) +Vcc
- 3) TX Data
- 4) GND
- 5) N.C.
- 6) GND
- 7) GND
- 8) GND

### TECHNICAL SPECIFICATION

Ta = 25 °C

CARATTERISTICHE		MIN	TYP	MAX	UNIT
Centro-frequenza RF di trasmissione <sup>(2,3)</sup>	Carrier frequency <sup>(2,3)</sup>	433.91	433.92	433.93	MHz
Alimentazione	Supply voltage	1.8	3	3.6	V
Potenza ERP <sup>(2)</sup>	ERP power <sup>(2)</sup>		2		dBm
Potenza ERP armoniche fino a 4 Ghz <sup>(2)</sup>	ERP spurious up to 4 Ghz <sup>(2)</sup>			-40	dBm
Corrente assorbita in stand-by	Supply current in standby mode			1	µA
Corrente assorbita in trasmissione <sup>(4)</sup>	Supply current in TX <sup>(4)</sup>		16		mA
Corrente assorbita portante continua	Supply current in TX RF carrier			32	mA
Corrente assorbita portante continua	Supply current in TX RF carrier			5	mA
Tensione ingresso dati <sup>(1)</sup>	Data input voltage <sup>(1)</sup>	1.9	3	3.3	V
Frequenza di modulazione	Square wave modulation			10	kHz
Tempo di accensione standby > TX	Switch on time standby > TX			1.5	ms
Tempo di spegnimento TX	Switch off time TX			20	ms
Temperatura di funzionamento	Operating temperature	-20		+80	°C

NOTE 1: It is recommended that the max voltage applied to data input pin is equal to voltage supply.

NOTE 2: Values have been obtained by applying the test system shown in Fig. 1 and maximum 3,6 V power supply.

NOTE 3: The minimum and maximum showed values are determined by the device's construction tolerance.

NOTE 4: Values are determined by means of an input signal with duty cycle 50%.

11.06.2018 - Rev A

