

433.42 MHz ASK transmitter with integrated antenna

TX.42-SMALL-IA

P.N. 650201466G

DESCRIZIONE

Trasmettitore in tecnologia SMT con antenna integrata operante a 433.42 MHz in modulazione ASK.

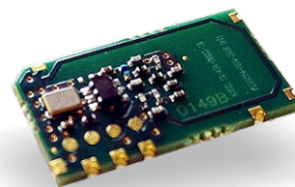
Componente ideale da integrare su radiocomandi e circuiti di piccole dimensioni.

DESCRIPTION

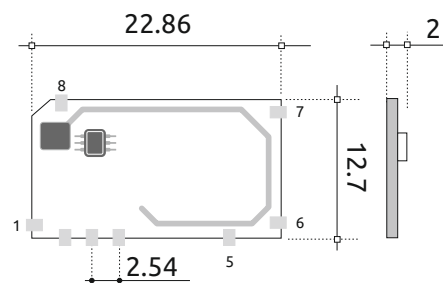
SMT transmitter with integrated antenna, operating at 433.42 MHz in ASK modulation.

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 ^(2,3)	Carrier frequency ^(2,3)	433.41	433.42	433.43	Mhz
Alimentazione	Supply voltage	1.8	3	3.6	V
Potenza ERP ⁽²⁾	ERP power ⁽²⁾		2		dBm
Potenza ERP armoniche fino a 4 Ghz ⁽²⁾	ERP spurious up to 4 Ghz ⁽²⁾			-40	dBm
Corrente assorbita in stand-by	Supply current in standby mode			1	µA
Corrente assorbita in trasmissione ⁽⁴⁾	Supply current in TX ⁽⁴⁾		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 ⁽¹⁾	Data input voltage ⁽¹⁾	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%.