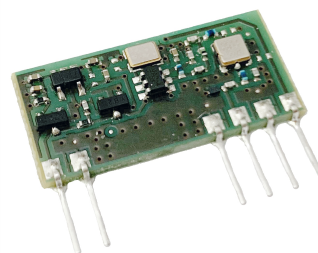


# 433,92MHz 3-12V OOK transmitter

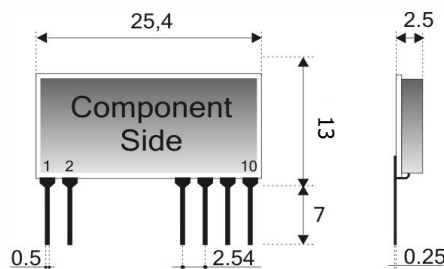
433,92MHz PLL OOK transmitter  
with external antenna  
(Radio Equipment Directive 2014/53/EU)



COMPONENT SIDE



DIMENSIONS



PIN-OUT

- 1) Data input
- 2) Ground
- 7) Ground
- 8) RF Output
- 9) Ground
- 10) +V

## TX-NB4-MID

P.N. 650201611G

### DESCRIZIONE

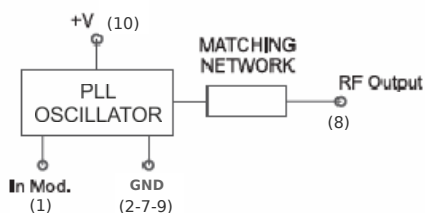
Trasmittitore dati operante ad 433,92MHz in OOK, con connessione antenna esterna 50R. Oscillatore progettato con tecnica PLL, adatto per sistemi alimentati a batteria. Il dispositivo opera in modalità sleep ed avvia la procedura con transizione alta sul pin dati. Funziona in modalità stand-alone, non necessita di programmazione mediante uC esterno

### DESCRIPTION

433,92MHz digital OOK transmitter 50R output connection for external antenna. Improved modulation by PLL technique. The device operate in sleep mode and start with high level transition of input data. It works in stand-alone mode, no programming need.

### BLOCK DIAGRAM

Block Diagram



### TECHNICAL SPECIFICATION

Ta = 25 °C

CHARACTERISTICS		MIN	TYP	MAX	UNIT
Working frequency	Frequenza di lavoro	433,91	433,92	433,93	MHz
Power supply	Alimentazione	2,3	3,3	12	Vdc
RF output power	Potenza in uscita RF	8	12	13	dBm
50 Ohm power harmonic <4GHz	50 Ohm potenza armonica <4GHz			-40	dBm
Output impedance pin ANT.	Impedenza di uscita pin ANT.		50		Ohm
Consumption stand-by	Consumi in stand-by		0.1	1	µA
Consumption (TX carrier)	Consumo (TX portante continua)		35	40	mA
Consumption (50% modulation)	Consumo (modulazione 50%)		22		mA
Modulation voltage input data	Ingresso tensione di modulazione	1.8		3.6	V
Data Rate	Velocità dati			10.000	bps
Switch time PWDN to TX	Tempo di switch da PWDN a TX		0.7		ms
Switch time TX to PWDN	Tempo di switch da TX a PWDN		20		ms
Working temperature	Temperatura di lavoro	-20		+80	°C