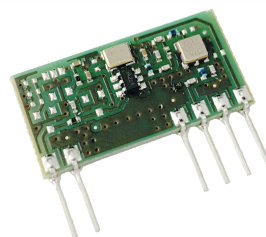


868,3MHz 3V FSK transmitter

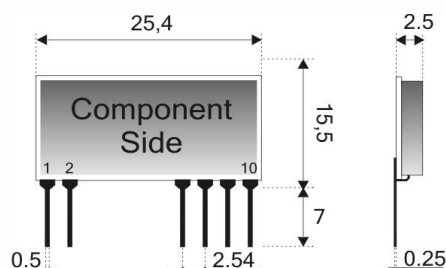
868,3MHz PLL FSK transmitter
with external antenna
(Radio Equipment Directive 2014/53/EU)



COMPONENT SIDE



DIMENSIONS



PIN-OUT

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

TX-NB868-3V-MID-FSK

P.N. 650201608G

DESCRIZIONE

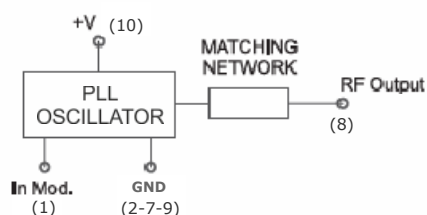
Trasmittitore dati operante ad 868,3MHz in FSK con connessione antenna esterna 50R. Oscillatore progettato con tecnica PLL, adatto per sistemi alimentati a batteria. Il dispositivo opera in modalità sleep ed avvia la procedura con transizione alta sul pin dati. Funziona in modalità stand-alone, non necessita di programmazione mediante uC esterno

DESCRIPTION

868,3MHz digital FSK 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	868,285	868,3	868,315	MHz
Power supply	Alimentazione	1.8	3	3,6	Vdc
RF output power	Potenza in uscita RF	8	10	12	dBm
50 Ohm ERP power armonica 4GHz	50 Ohm ERP potenza armonica 4GHz			-50	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
Deviation freq. modulation	Deviazione freq. modulazione		±25		KHz
Modulation voltage input data	Ingresso tensione di modulazione	1.8		3.6	V
Data Rate	Velocità dati			10.000	bps
Switch time Sleep to TX	Tempo di commutazione Sleep to TX		0.7		ms
Switch time TX to Sleep	Tempo di commutazione TX to Sleep		20		ms
Working temperature	Temperatura di lavoro	-20		+80	°C

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