

PLL FSK Dual Transmitter with external antenna

HIGH SECURITY IN DATA TRANSMISSION

TX-FM 434/868

P.N. 650201089G

Descrizione

Trasmittitore RF funzionante contemporaneamente nella banda 434 e 868 MHz con modulazione FSK ed antenna esterna per applicazioni LPD. Pin to pin compatibile con i moduli AUREL TX-SAW s/Z (ver. 5V).

In accordo con le normative europee EN 300-220 e EN 301-489.

Ideale per applicazioni home alarm e radiocomandi, ove sia richiesta un'alta sicurezza di trasmissione dati radio ed elevata immunità elettromagnetica.

Description

RF transmitter working, in the same time, on both 434 and 868 MHz band, FSK modulation and external antenna. Useful for LPD applications. Pin to pin compatible with AUREL module TX SAW s/Z.

In compliance to European Normatives EN 300 220 and EN 301-489.

Suitable for home alarm applications when it is requested an high security in data transmission and electromagnetic immunity.

TECHNICAL SPECIFICATION

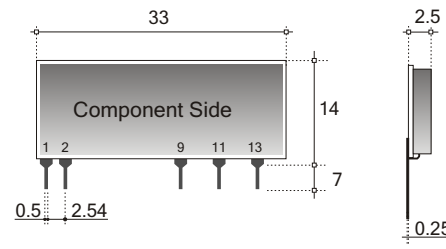
Ta = 25 °C

Characteristics	Caratteristiche	Min	Typ	Max	Unità
Supply voltage	Alimentazione	2,7	3	3,6	Vdc
Current consumption	Corrente assorbita	27	38	44	mA
Current consumption (stand-by)	Corrente assorbita (stand-by)		< 1		µA
Frequency band 1	Frequenza portante 1	434,130	434,15	434,170	MHz
Frequency band 2	Frequenza portante 2	868.260	868,3	868.340	MHz
RF output power	Potenza di uscita RF	5	8	10	dBm
RF output impedance	Impedenza d'uscita RF		50		ohm
Frequency 1 deviation	Deviazione Frequenza 1		±20		KHz
Frequency 2 deviation	Deviazione Frequenza 2		±40		KHz
Modulation frequency	Frequenza di modulazione	0.03	5	20	KHz
Input logic level	Livello logico d'ingresso	0		Vs	V
Turn ON time ⁽¹⁾	Tempo di accensione ⁽¹⁾	2.5	2.6	2.7	ms
Operating temperature	Temperatura di lavoro	-20		+80	°C

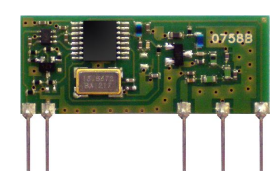
⁽¹⁾ Device turn ON time from first on edge of data input. First 1.4 ms of data are not transmitted

⁽¹⁾ Tempo di accensione del dispositivo dal primo fronte di salita sul pin di ingresso dati. I primi 1.4ms di dati non vengono perciò trasmessi.

DIMENSIONS



COMPONENT SIDE



PIN-OUT

- 1) TX DATI
- 2) GND
- 9) USCITA RF
- 11) GND
- 13) VCC

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