



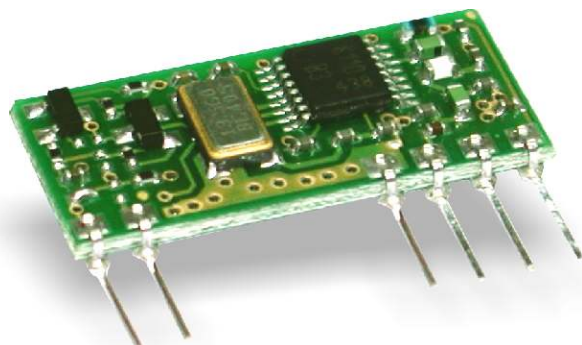
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# TX-FM-MID

## 434 MHz PLL FSK Transmitter

# 3V



### Description

434 MHz transmitter module with FSK modulation and external antenna for LPD applications. Pin to pin compatible with ASK AUREL TX-SAW-MID modules.

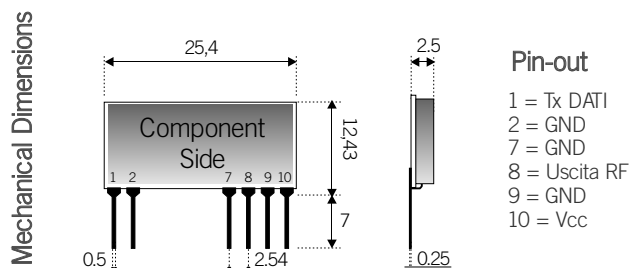
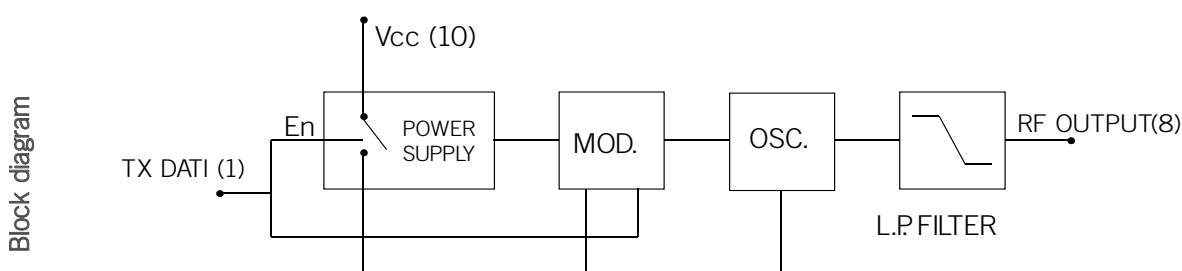
In compliance with European Normative EN 300-220 and EN 301-489.

### Descrizione

Modulo trasmettitore RF a 434 MHz con modulazione FSK ed antenna esterna per applicazioni LPD.

Pin to pin compatibile con i moduli AUREL FSK TX-SAW-MID.

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



# 434 MHz PLL FSK Transmitter

## Technical Specification

Ta = 25 °C

| Characteristics                                  | Min | Typ    | Max            | Unit |
|--------------------------------------------------|-----|--------|----------------|------|
| V <sub>S</sub> Supply Voltage                    | 2.1 | 3      | 3.6            | Vdc  |
| I <sub>S</sub> Supply Current                    | 11  | 14     | 16             | mA   |
| I <sub>PD</sub> Supply Current (power down mode) |     | < 1    |                | μA   |
| F <sub>W</sub> Carrier frequency                 |     | 433.92 |                | MHz  |
| P <sub>O</sub> RF Output power                   | 7   | 10     | 12             | dBm  |
| Z <sub>O</sub> RF Output Impedance               |     | 50     |                | Ω    |
| D <sub>F</sub> Deviation                         |     | ± 20   |                | KHz  |
| F <sub>M</sub> Square wave modulation            |     | 5      | 40             | KHz  |
| L <sub>I</sub> Input logic level                 | 0   |        | V <sub>S</sub> | V    |
| T <sub>WU</sub> Wake up time <sup>(1)</sup>      |     | 1.4    |                | ms   |
| T <sub>OP</sub> Operating temperature range      | -20 |        | +80            | °C   |

<sup>(1)</sup>Device wake up time from first low-high transaction on input data pin. The first 1.4ms of data aren't so transmitted.

## Specifiche Tecniche

Ta = 25 °C

| Caratteristiche                                      | Min | Typ    | Max            | Unità |
|------------------------------------------------------|-----|--------|----------------|-------|
| V <sub>S</sub> Alimentazione                         | 2.1 | 3      | 3.6            | Vdc   |
| I <sub>S</sub> Corrente assorbita                    | 11  | 14     | 16             | mA    |
| I <sub>PD</sub> Corrente assorbita (power down mode) |     | < 1    |                | μA    |
| F <sub>W</sub> Frequenza portante                    |     | 433.92 |                | MHz   |
| P <sub>O</sub> Potenza di uscita RF                  | 7   | 10     | 12             | dBm   |
| Z <sub>O</sub> Impedenza d'uscita RF                 |     | 50     |                | Ω     |
| D <sub>F</sub> Deviazione                            |     | ± 20   |                | KHz   |
| F <sub>M</sub> Frequenza di modulazione              |     | 5      | 40             | KHz   |
| L <sub>I</sub> Livello logico d'ingresso             | 0   |        | V <sub>S</sub> | V     |
| T <sub>WU</sub> Tempo di accensione <sup>(1)</sup>   |     | 1.4    |                | ms    |
| T <sub>OP</sub> Temperatura di lavoro                | -20 |        | +80            | °C    |

<sup>(1)</sup>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.

Part Number / Model

650200926  
mod. TX-FM-MID