

# FM Super Het Receiver 868.30

LOW COST & HIGH SENSITIVITY

## RX-FM8SF 868.30

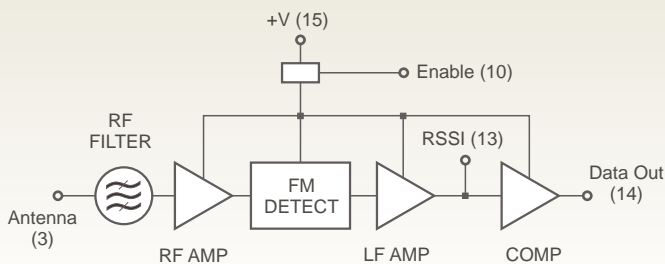
### DESCRIZIONE

Ricevitore supereterodina FM ad elevata sensibilità e selettività, munito di filtro SAW front-end che lo rende altamente immune ai disturbi. Grazie al pin di enable il ricevitore può assumere lo stato di power-down in assenza di segnale e minimizzare così il consumo a 0,5  $\mu$ A. Ideale per codifica Keeloq di Microchip

### DESCRIPTION

High sensitivity and sensibility super-het receiver FM receiver. Front-end SAW filtered to an higher electromagnetic immunity. Enable pin allows to reach power-down mode without signal and reduce consumption up to 0.5  $\mu$ A. Ideal for Microchip Keeloq encoders.

### BLOCK DIAGRAM



### TECHNICAL SPECIFICATION

Ta = 25 °C

#### CHARACTERISTICS

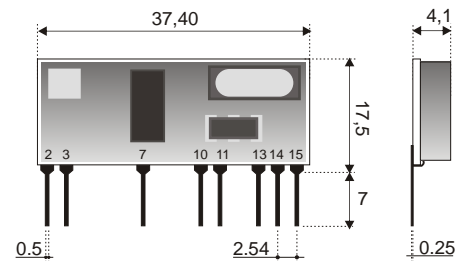
CHARACTERISTICS	Alimentazione
Supply Voltage	Alimentazione
Supply Current	Corrente Assorbita
Power-down	Power-down
Reception frequency	Frequenza di ricezione
RF sensitivity <sup>(1)</sup>	Sensibilità RF <sup>(1)</sup>
RF Bandwidth - 3dB	Banda passante RF a - 3dB
IF Bandwidth - 3dB	Banda passante IF a - 3dB
Square wave output	Onda quadra in uscita
Output high voltage	Livello alto d'uscita
Output low voltage	Livello basso d'uscita
Antenna RF emission	Emissioni RF spurie in antenna
Switch-on time <sup>(2)</sup>	Tempo di accensione <sup>(2)</sup>
Operating temperature range	Temperatura di lavoro

MIN	TYP	MAX	UNIT
4.5	5	5.5	Vdc
	5.6	6.0	mA
	0.5		$\mu$ A
	868.30		MHz
	-105	-106	dBm
	1.3		Mhz
	280		KHz
0.5	3.0	3.8	KHz
Vs - 1.2	Vs - 0.8		V
		0.1	V
		- 60	dBm
	1.5	2	mS
-20		+80	°C

<sup>(1)</sup> RF generator with 100% modulation

<sup>(2)</sup> Time needed to achieve declared features leaving power-down mode.

### DIMENSIONS



### COMPONENT SIDE



### PIN-OUT

- 2) Ground
- 3) Antenna
- 7) Ground
- 10) Enable
- 11) Ground
- 13) RSSI Out - Test point
- 14) Data Out
- 15) +V

### APPLICATIONS

- ✓ Home security
- ✓ Access control
- ✓ Burglar alarms
- ✓ Car alarms