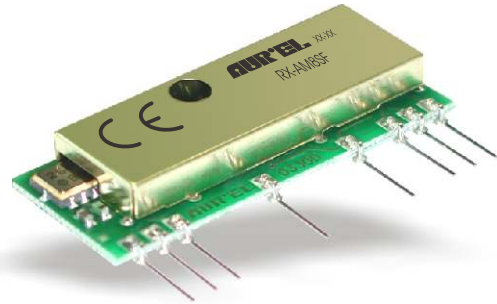


# 868 Mhz RSSI Super-Het Receiver



**-108dBm\***

## Description

The super-het receiver RX-AM8SF can provide a RSSI output indicating the amplitude of the received signal. This output can be used to create a field-strength meter capable to indicate the distance of the transmitting unit.

\* RF generator with 100% modulation

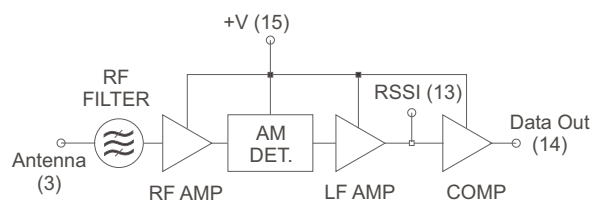
## Descrizione

Il ricevitore supereterodina RX-AM8SF è in grado di fornire un'uscita RSSI per indicare l'ampiezza del segnale captato.

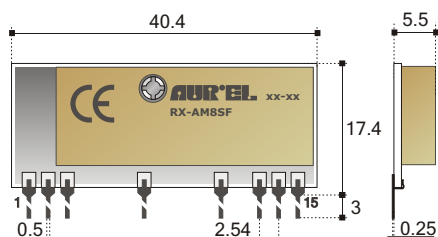
Tale indicazione può essere sfruttata per implementare un misuratore di campo capace di segnalare la distanza a cui si trova l'oggetto trasmittente.

\* Generatore RF con modulazione 100%.

## Block diagram



## Mechanical Dimensions



## Pin-out

- 1) +Vcc Preamp
- 2) Ground
- 3) Antenna
- 7) Ground
- 11) Gain
- 13) RSSI Output
- 14) Data Output
- 15) +V

# 868 Mhz RSSI Super-Het Receiver

## Technical Specification

Ta = 25 °C

Characteristics	Min	Typ	Max	Unit
V <sub>S</sub> Supply Voltage	4.5	5	5.5	Vdc
I <sub>S</sub> Supply Current		8		mA
F <sub>W</sub> Reception frequency	868.14	868.30	868.46	MHz
S <sub>I</sub> RF sensitivity*	-105	-108	-109	dBm
RF <sub>BW</sub> RF Bandwidth - 3dB		1		MHz
IF <sub>BW</sub> IF Bandwidth - 3dB		300		KHz
S <sub>O</sub> Square wave output			3	KHz
H <sub>O</sub> Output high voltage	Vs - 0.4			V
L <sub>O</sub> Output low voltage			GND + 0.4	V
E <sub>A</sub> Antenna RF emission			- 60	dBm
T <sub>OP</sub> Operating temperature range	-20		+80	°C

\* RF generator with 100% modulation

## Specifiche Tecniche

Ta = 25 °C

Caratteristiche	Min	Typ	Max	Unità
V <sub>S</sub> Alimentazione	4.5	5	5.5	Vdc
I <sub>S</sub> Corrente Assorbita		8		mA
F <sub>W</sub> Frequenza di ricezione	868.14	868.30	868.46	MHz
S <sub>I</sub> Sensibilità RF *	-105	-108	-109	dBm
RF <sub>BW</sub> Banda passante RF a - 3dB		1		MHz
IF <sub>BW</sub> Banda passante IF a - 3dB		300		KHz
S <sub>O</sub> Onda quadra in uscita			3	KHz
H <sub>O</sub> Livello alto d'uscita	Vs - 0.4			V
L <sub>O</sub> Livello basso d'uscita			GND + 0.4	V
E <sub>A</sub> Emissioni RF spurie in antenna			- 60	dBm
T <sub>OP</sub> Temperatura di lavoro	-20		+80	°C

\* Generatore RF con modulazione 100%.

### Part Number / Model

650200797  
mod. RX-AM8SF