

High Selectivity Super Het Receiver

SAW FILTERED & VERY HIGH SENSITIVITY

RX-8ML5++/F

P.N. 650201208G

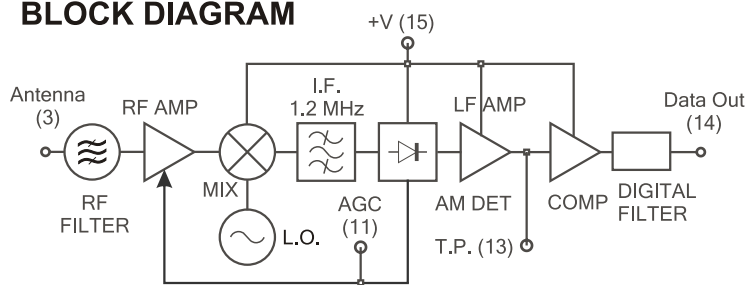
DESCRIZIONE

Ricevitore supereterodina AM OOK 868.30 MHz miniaturizzato ad elevata sensibilità in ingresso, alta immunità ai campi elettromagnetici interferenti, ottenuta con l'impiego del filtro SAW in ingresso. Grazie a una nuova tecnica circuitale rende il ricevitore ideale per applicazioni dove sia necessaria un'ottima immunità ai disturbi creati da motori a spazzole.

DESCRIPTION

Super-het receiver of AM modulated digital data, working at 868.30 MHz frequency. Pin to pin compatible with all OOK AUREL receivers. High selectivity and sensitivity obtained by a front-end SAW filter. Ideal for applications needs an higher noise immunity created by brushes electrical motor.

BLOCK DIAGRAM



TECHNICAL SPECIFICATION

Characteristics	Caratteristiche	Min	Typ	Max	Unit
Supply Voltage	Alimentazione	4.7	5	5.5	Vdc
Supply Current	Corrente Assorbita		10		mA
Reception frequency	Frequenza di ricezione	868.15	868.30	868.45	MHz
RF sensitivity ⁽¹⁾	Sensibilità RF ⁽¹⁾	-108		-113	dBm
IF Bandwidth - 3dB	Banda passante IF a - 3dB		350		KHz
RF Bandwidth - 3dB	Banda passante RF a - 3dB		600		KHz
Interference rejection at ±10 Mhz	Reiezione alle Interferenze a ±10 Mhz		75		dB
Interference rejection at ±2 Mhz	Reiezione alle Interferenze a ±2 Mhz		62		dB
Square wave output	Onda quadra in uscita		3		KHz
Output high voltage	Livello alto d'uscita	Vdd*0.75 ⁽⁴⁾			V
Output low voltage	Livello basso d'uscita			GND+0.4 ⁽⁴⁾	V
Output impedance	Impedenza in uscita		4.7		KOhm
Antenna RF emission	Emissioni RF spurie in antenna			- 60 ⁽²⁾	dBm
Switch-on time	Tempo di accensione			<100 ⁽³⁾	ms
Operating temperature range	Temperatura di lavoro	-20		+80	°C

Nota 1: Sensibilità ottenuta mediante generatore RF modulato 100%

Nota 2: La misura dell'emissione RF è stata ottenuta collegando direttamente l'analizzatore di spettro sul Pin 14 del RX

Nota 3: Per tempo di accensione, si intende il tempo che impiega il ricevitore a raggiungere le caratteristiche dichiarate, dal momento in cui si applica l'alimentazione

Nota 4: Valori ottenuti con carico massimo di 10K

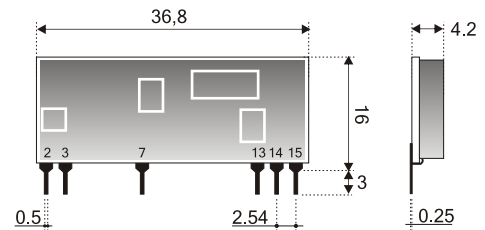
Note1: Sensitivity is obtained by 100% modulated RF generator.

Note2: The measure of the RF emission is obtained connecting directly the spectrum analyzer on Pin 14 of the receiver.

Note3: Switch On time is meant the time required to reach the features declared, from the moment the voltage supply is applied.

Note4: Values is obtained with 10 KΩ of maximum load applied.

DIMENSIONS



PIN-OUT

- 2) Ground
- 3) Antenna
- 7) Ground
- 13) RSSI Out
- 14) Data Out
- 15) +V

APPLICAZIONI

- Apricancello
- Attuatori
- Avvolgibili
- Pompe idrauliche

APPLICATIONS

- Gate openers
- Actuators
- Roller shutters
- Hydraulic pumps

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