

Band pass filtered Super Het OOK Receiver

433.92 Mhz superhet receiver RED compliant
(Radio Equipment Directive 2014/53/EU)



RX-4MR50++

P.N. 650201471G

DESCRIZIONE

Ricevitore economico OOK operante a 433.92 Mhz con filtro passa banda, compatibile con la RED (Radio Equipment Directive 2014/53/EU) e in particolare con le norme armonizzate:

- EN 301 489-3 : V2.1.1 (final draft)
- EN 300 220-2 : V3.1.1

Ingresso antenna protetto da scariche ESD, conforme alla normativa 61000-4-2.

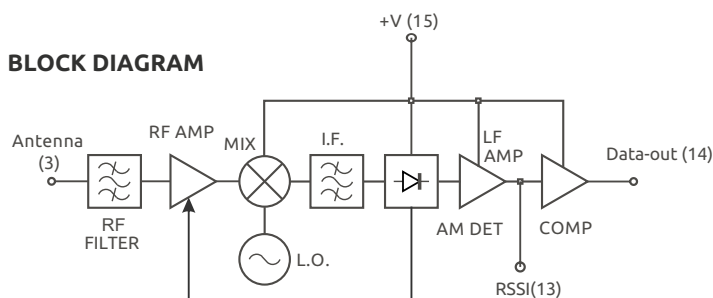
DESCRIPTION

Low cost OOK receiver working at 433.92 Mhz with band pass filter, compliant with RED (Radio Equipment Directive 2014/53/EU) and in particular with harmonics standards:

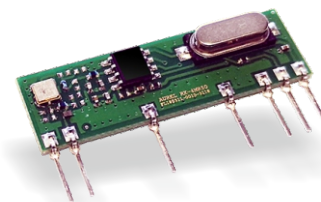
- EN 301 489-3 : V2.1.1 (final draft)
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ESD antenna protection in compliance with EN61000-4-2.

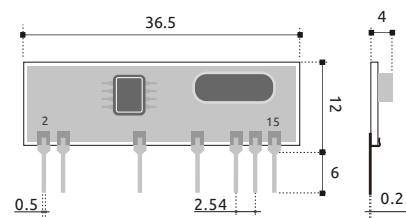
BLOCK DIAGRAM



COMPONENT SIDE



DIMENSIONS



PIN-OUT

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

TECHNICAL SPECIFICATION

Ta = 25 °C

| CHARACTERISTICS | | MIN | TYP | MAX | UNIT |
|-----------------------------|-------------------------------|---------|--------|---------|------|
| Supply Voltage | Alimentazione | 3 | 5 | 5.5 | Vdc |
| Supply Current | Corrente Assorbita | 4.1 | 7.5 | 4.6 | mA |
| Reception frequency | Frequenza di ricezione | | 433.92 | | MHz |
| RF sensitivity* | Sensibilità RF* | | -109 | -114 | dBm |
| IF Bandwidth - 3dB | Banda passante IF a - 3dB | | 420 | | KHz |
| RF power on 50 Ohm pin ant. | Potenza RF su 50 Ohm pin ant. | | | -60 | dBm |
| Square wave output | Onda quadra in uscita | 0.020 | 1 | 5 | KHz |
| Output high voltage | Livello alto d'uscita | Vcc-0.6 | | Vcc-0.1 | V |
| Output low voltage | Livello basso d'uscita | GND | | GND+0.4 | V |
| Switch on time | Tempo dio accensione | | | 4 | msec |
| Operating temperature range | Temperatura di lavoro | -20 | | +85 | °C |

- * RF generator with 100% modulation
- * Generatore RF con modulazione 100%

