

433.92 MHz SUPER-REGENERATIVE ASK RECEIVER

Mod. "3V VERSION - STANDARD+" / P.n. 2-5000881

DESCRIPTION:

ASK receiver based on Super Regenerative principle, manufactured in thick film technology on ceramic substrate.

HIGHLIGHTS:

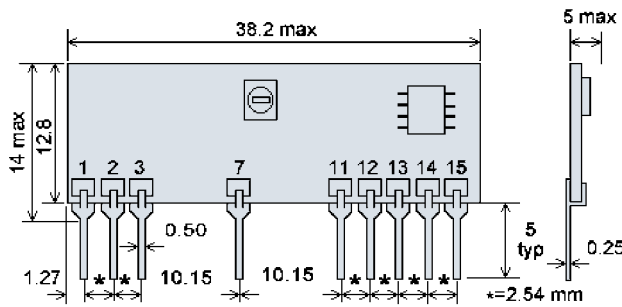
Low cost receiver with optimal sensitivity,
Developed according to I-ETS 300 220.

APPLICATIONS:

Car alarm, Door openers,
Data transmission and more.



MECHANICAL CHARACTERISTICS



Pin functions

- 1 = + 3Vdc
- 2 = GND
- 3 = RF Input (50Ω)
- 7 = GND
- 11 = GND
- 12 = + 3Vdc
- 13 = T.P. (Not used)
- 14 = TTL Output
- 15 = + 3Vdc

ABS. MAX. RATINGS:

Power Supply, Vcc, pin 1, 12, 15:	+ 6 Volt
Radio Frequency Input, pin 3:	+10 dBm
Voltage, with respect to GND, of output pins:	Vcc
Storage temperature:	- 40 ÷ + 100 °C

ELECTRICAL CHARACTERISTICS AT THE TEMPERATURE OF + 25°C.

Parameter	Min.	Typ.	Max	Unit	Notes
Supply voltage (Vcc)	2.7	3	3.4	Volt	
Current Supply	-	2.0	-	mA	
Receive Frequency	433.42	433.92	434.42	MHz	Note 1
Sensibility (mod. 99%, square wave 1kHz)	-96	-100	-104	dBm	
RF Bandwidth -3dB	-	±2.5	-	MHz	
Antenna spurious RF Emission	-	-	-58	dB	
Baud rate	-	-	4800	Baud	
Start-up Time	-	-	300	ms	
Logic Low	0	0.02	0.05	Volt	
Logic High	2.6	2.8	-	Volt	
Output impedance	-	10	-	Kohm	

Note 1: in production stage, it's possible to obtain frequencies between 220 and 440 MHz.

Note 2: all RF parameters measured with the input connected to a 50 ohm impeded signal source or load.

Mipot S.p.A. reserves the right to modify the specifications without notice.

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