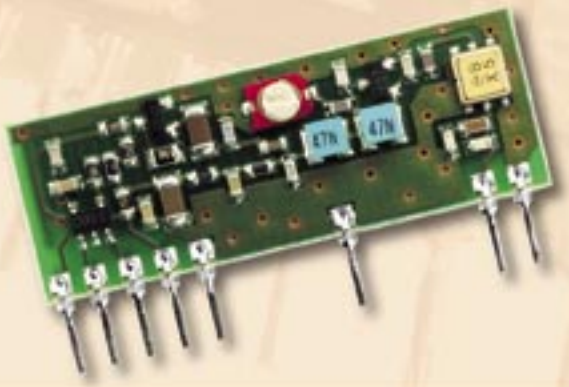
433.92 MHz SUPER-REGENERATIVE ASK/OOK RECEIVER

Mod. "3V VERSION – VERY LOW CONSUMPTION" / P.n. 3-2000495A

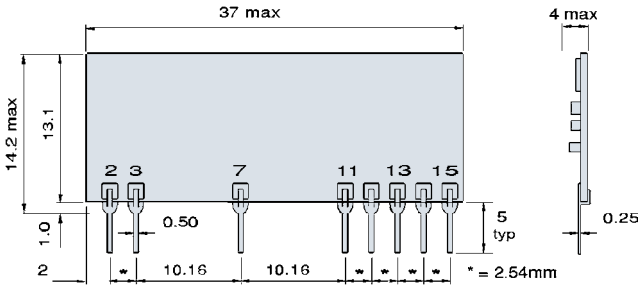
DESCRIPTION:
ASK/OOK receiver based on super regenerative principle, with front-end SAW filter.

HIGHLIGHTS:
Developed according to I-ETS 300 220 European Standard. Typical current supply 70 µA

APPLICATIONS:
Battery or solar energy applications, self powered sirens for wireless alarms, in general applications that require very low consumption.



MECHANICAL CHARACTERISTICS



Pin functions

1 = absent
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 12, 15:	+ 8 Volt
Radio frequency input, pin 3:	+10 dBm
Voltage, with respect to GND, of output pins:	Vcc
Storage Temperature:	- 40 ÷ + 100 °C
Operational Temperature:	- 20 ÷ + 70 °C

ELECTRICAL CHARACTERISTICS AT THE TEMPERATURE OF + 25°C.

Parameter	*Min.*	*Typ.*	*Max*	*Unit*	*Notes*
Power Supply (Vcc)	2.3	3	3.5	Volt	
Supply Current	-	70	-	µA	
Center Frequency	432.82	433.92	434.02	MHz	
Sensibility (mod. 99%, square wave 1kHz)	-	-93	-	dBm	
S/N ratio for a -90dBm Input Signal	-	17	-	dB	
RF Bandwidth at -3dB	-	±1	-	MHz	
Antenna Spurious RF Emission	-	-	-60	dBm	
Baud rate	-	-	2400	Baud	
Logic Low	0	0.02	0.05	Volt	
Logic High	2.8	2.95	-	Volt	
Adjustment time at "power ON"	-	800	-	msec	
Output Impedance	-	50	-	Kohm	

Note 1: All RF characteristics are measured with the input (pin3) connected to a 50 ohm impedance source or load.

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

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