

433.92 MHz SUPER HETERODYNE AM/ASK RECEIVER

Cod. 32000597

DESCRIPTION:

Low cost Super Heterodyne ASK Receiver, manufactured in SMT technology on printed circuit.

HIGHLIGHTS:

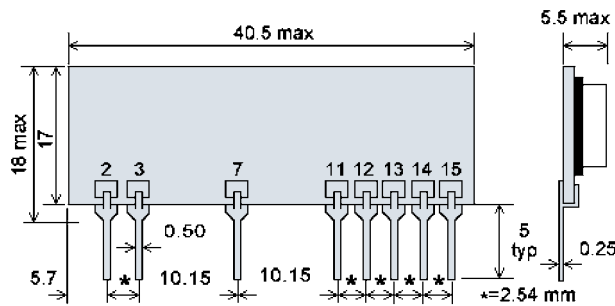
On output pin has been realized a mono stable circuit in order to cancel short impulses that can be present in the received and already squared signal. So it can restore broken impulses integrity. It has been optimized for HCS and HT12E encodes. RSSI output is proportional to received signal level. Developed according to ETS 300 220 European Standard.

APPLICATIONS:

Security systems, data transmissions, industry controls.



MECHANICAL CHARACTERISTICS



Pin functions

- 2 = GND
- 3 = RF Input (50Ω)
- 7 = GND
- 11 = GND
- 12 = + Vdc
- 13 = RSSI Output
- 14 = TTL Output - Data OUT
- 15 = + Vdc

ABS. MAX. RATINGS:

Power Supply, Vcc, pin 12, 15:	+ 6 Volt
Radio Frequency Input, pin 3:	+10 dBm
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)	4.5	5	5.5	Volt	
Supply Current	-	-	5.5	mA	
Receive Frequency	-	433.92	-	MHz	
Sensitivity (Squelch Threshold) at 25°C	-	-112	-	dBm	Note 1
RF Bandwidth at -3 dB	-	200	-	kHz	
Antenna Spurious RF Emission	-	-	-65	dBm	
Logic Low	GND	-	0.05	Volt	
Logic High	4	-	Vdc	Volt	
Baud Rate	-	-	2400	Baud	
Start-up Time	-	-	150	msec	Note 2
Power Down Supply Current	-	-	50	nA	
AF Output Impedance, pin 14, TTL	50	-	-	KΩ	

Note 1.: AM modulation 100%, square wave 1 kHz frequency.

Note 2.: measured at threshold, input signal level -110 dBm

Note 3.: all RF parameters measured with pin 3 connected to a 50Ω imp. signal source or load.

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

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