868 MHz SUPER HETERODYNE FM/FSK RECEIVER

Cod. 3-2000524

RF WIRELESS

DESCRIPTION:

Super Heterodyne FSK Receiver, manufactured in SMT technology on printed circuit.

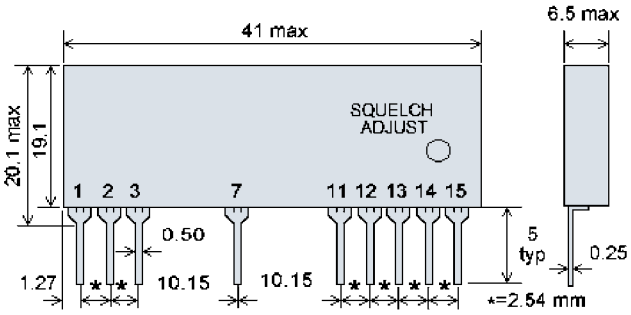
HIGHLIGHTS:

It is possible to adjust the squelch level with a resistive trimmer, to make the receiver noiseless when there's no signal even in noisy environments.
Developed according to I-ETS 300 220.

APPLICATIONS:

Security Systems, Data Transmission, Industrial Controls.

MECHANICAL CHARACTERISTICS



Pin functions

1 = + 5Vdc
2 = GND
3 = RFInput (50Ω)
7 = GND
11 = GND
12 = + 5Vdc (PWR Down Control)
13 = C.D.–Squelch Out
14 = TTL Out
15 = T.P. - RSSI Out
(T.P.- Audio Out on request)

ABS. MAX. RATINGS:

Power Supply, Vcc, pin 1, 12:	+ 6 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)	4.5	5	5.5	Volt	
Supply Current	-	-	9	mA	
Receive Frequency	-	868.300	-	MHz	
Overall Frequency Accuracy		±50		kHz	
Sensitivity (Squelch Threshold) at 25°C	-	-102	-	dBm	Note 1
RF Bandwidth at -3 dB	-	200	-	kHz	
Δ frange - demodulated	20	-	100	kHzpp	
Antenna Spurious RF Emission	-	-	-65	dBm	
Logic Low	GND	-	0.05	Volt	
Logic High	4.2	-	Vcc	Volt	
Baud Rate	-	-	19200	Baud	
Start-up Time	-	-	150	ms	
Power Down Supply Current			50	nA	
AF Output Impedance	50	-	-	KΩ	

Note 1: minimum RF signal level at the nominal frequency, FM modulated with 1KHz square wave and deviation 25KHzp for a 17dB S/N ratio.
Note 3: all RF parameters measured with the input connected to a 50Ω imped. signal source or load.

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

MIPOT S.P.A.
Via Corona, n.5
(Zona Ind.)
34701 Cormons (GO)
Italy
Tel.+39 0481 630200 r.a.
Fax +39 0481 62387
mipot@mipot.com