

# UHF Narrow Band Single Channel Receiver

## CDP-RX-03BS-R

CDP-RX-03BS-R UHF FM-narrow band receiver is developed to cover 433-434MHz ISM band. The receiver design is based on the double super-heterodyne principle, enabling high signal sensitivity, high selectivity, and high frequency stability which are not achieved by simple SAW resonators or other low cost designs.

### Features

- 433-434MHz ISM band
- R&TTE (EN 300 220) / RoHS compliant
- Very small compact integrated device with robust metal housing
- FM narrow band modulation and high frequency stability
- Low current consumption, ideal for mobile applications
- Control terminal for switching the power on/off

### Applications

- Remote control system
- Telemetry system
- Social alarm system
- Security system
- Paging system



### General

Parameter	Specification
Receiver type	Double superheterodyne, Crystal oscillated single channel
Frequencies	433.920, 434.075 MHz *Other frequency
Frequency stability	+/-2.5 kHz (-10 to +60 C)
Pulse width	Min. 208 us Max. 20 mS
Data rate	100 to 4800 bps FSK
Operating temp. range	-10 to +60 C
Demodulation	FM Narrow
Sensitivity	-120 dBm (12 dB/SINAD at CCITT filter) +/-5 kHz at -6 dB point
Adjacent channel selectivity	60 dB
Spurious radiations	-60 dBm
Distortion	< 5% at 1kHz (AF output)
S/N ratio	50 dB overall (AF output)
Data output	Digital output, pulled up to Vcc (22 kohm)
Other outputs	RSSI, AF (-11dBm typ. at Fm=1kHz / Fmod=+/-3kHz, 100 kohm)
Supply Voltage	3.0 to 14 V DC
Supply current	16 mA (typ)
I/O terminals	Ant, Gnd, Vcc, Data out, AF out, RSSI out, Power Control
Dimensions	36 x 26 x 8 mm
Weight	12g

Specifications are subject to change without prior notice

\*Other frequency: Please contact Circuit Design, Inc.