

UHF Narrow Band Single Channel Receiver **CDP-RX-03AS-R**

CDP-RX-03AS-R UHF FM-narrow band receiver is developed to cover 868-870MHz European harmonized band. The receiver design is based on the double Super-heterodyne principle with PLL control, enabling high signal sensitivity, high selectivity, and high frequency stability which are not achieved by simple SAW resonators or other low cost designs.

Feature

- 860-870 MHz band
- R&TTE (EN 300 220) / RoHS compliance
- 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

Application

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



Specifications

Item	Specification (All ratings at 25 degree C unless otherwise noted)
Receiver type	Double superheterodyne, PLL controlled Fixed channel
Frequencies	869.75 MHz *Other frequency
Frequency stability	+/-3.0 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	-117 dBm (12dB/SINAD at CCITT filter)
Selectivity	+/-5 kHz at -6 dB point
Adjacent CH selectivity	60 dB
Spurious radiations	-60 dBm
Distortion	< 5 % at 1 kHz (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	21 mA (typ)
I/O terminals	Ant, Gnd, Vcc, Data out, AF out, RSSI out, Power Control
Dimensions	36 X 26 X 8 mm
Weight	12 g

Specifications are subject to change without prior notice
*Other frequency: Please contact to Circuit Design, Inc. distributor

CIRCUIT DESIGN, INC. International Business Division

<http://www.cdt21.com/>

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