

UHF Narrow Band Single Channel Transmitter/Receiver

CDP-TX-03S / CDP-RX-03AS

CDP-03S is designed to cover band plan of CEPT ERC Recommendation 70-03 on Short Range Device (SRD) in the range of European harmonized band 868-870MHz.

The small size and low power consumption of the CDP-03S are suitable for various application field, such as wireless data communication, remote control, telemetry or wireless security system.

Feature

- Comply with new European 868-870MHz
- Light weight, compact integrated devices
- Low current consumption, ideal for battery operated applications
- High sensitivity 300m range
- EN 300 220 compliance

Application

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



Common

| Item | Specification |
|-----------------------|---------------------|
| Communication form | One way |
| Oscillation system | PLL controlled VCO |
| Frequency range | 869.750MHz |
| Number of RF channels | Single (fixed) |
| Frequency stability | +/-3.0kHz |
| Baud rate | 300 to 4800bps |
| Operating temp. range | -10 - +55 degrees C |

CDP-TX-03S (Transmitter)

| | |
|---------------------------|----------------------|
| Transmitter type | Fixed channel |
| RF output power | 5mW +0,-3dB at 50ohm |
| Transmitter start up time | 10msec |
| Modulation | FM Narrow |
| Data input level | 3 - 5V |
| Input signal | Digital |
| Deviation | 2.7 - 3.0kHz |
| Spurious emission | <-56dBm (<1GHz) |
| Adjacent channel power | <200nW |
| Supply voltage | 5 - 14V DC |
| Supply current | 30mA (typ) |
| Dimensions | 36 X 26 X 8 mm |
| Weight | 11g |

CDP-RX-03AS (Receiver)

| | |
|----------------|--------------------------------------|
| Receiver type | Double Superheterodyne fixed channel |
| Sensitivity | -117dBm (12dB/SINAD at CCITT filter) |
| Selectivity | +/-5kHz at -6dB point |
| Demodulation | FM Narrow |
| Distortion | < 5% at 1kHz |
| S/N ratio | 50dB overall |
| Data output | Digital |
| Supply Voltage | 3.0 to 14V DC |
| Supply current | 17mA (typ) |
| Dimensions | 36 X 26 X 8mm |
| Weight | 12g |

Specifications are subject to change without prior notice

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CDP-TX/RX-03SDS ver1.1

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