CIROUIT DESIGN, INC.

UHF Narrow Band Single Channel Transmitter/Recever CDP-TX-01 / CDP-RX-01S

The crystal-controlled single frequency radio data module CDP-TX-01 (transmitter) and CDP-RX-01S (receiver) are suitable for various application fields, such as wireless data communication, remote control, telemetry or wireless security systems.

The small size and low power consumption of the CDP-01 make it ideal for mobile applications where its interference resistance and effective range are far superior to that of similar RF modules based on wide band SAW-resonator frequency generators.

Feature

- European I-ETS 300 220 compliance
- Very small compact integrated device with robust metal housing
- Low current consumption
- FM narrow band modulation and high frequency stability
- High sensitivity 300m range

Application

- Remote control systems
- Security systems
- Alarms
- Telemetry systems

CDP-TX-01

(Transmitter)

CDP-RX-01S

(Receiver)

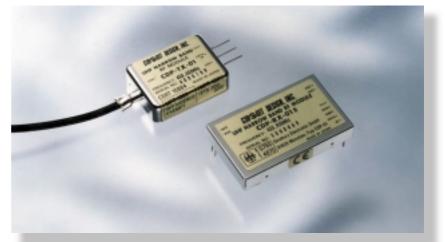
Common

Item Communication form Oscillation system Frequency range Number of RF channels Frequency stability Baud rate Operating temp. range

Transmitter type RF output power Transmitter start up time Modulation Data input level Input signal Deviation Spurious emission Adjacent channel power Supply voltage Supply current Dimensions Weight Receiver type Sensitivity

Receiver type Sensitivity Selectivity Demodulation Distortion S/N ratio Data output Supply Voltage Supply current Dimensions

Weight



| Specification |
|---------------------------------|
| One way |
| Crystal |
| 433.920MHz, 434.075MHz |
| Single (fixed) |
| +/-2.5kHz (-10 to +55 degree C) |
| 300 to 4800bps |
| -10 - +60 degrees C |

Fixed channel 10mW +0,-3dB at 50ohm 10msec FM Narrow 5V Digital 2.5kHz <-60dBm (<1GHz) <200nW 5.5 - 10V 18mA (typ.) 36 X 26 X 10 mm 9.8g Double Superheterodyne fixed channel -120dBm (12dB/SINAD at CCITT filter) +/-5KHz at -6dB point

-120dBm (12dB/SINAD at CCITT filter) +/-5kHz at -6dB point FM Narrow < 5% at 1kHz 50dB overall (AF out) Digital 4.5 to 14V DC 10mA (typ) 50 X 30 X 7.5mm 19g

Specifications are subject to change without prior notice

CIRCUIT DESIGN, INC. International Business Division