

# R2705E

27.195MHz FSK Radio Data Receiver for Manchester Data Format

## Features

- Receives digital data
- Baud rates 300 - 2400bps
- Low cost, small size, low current consumption

## Application

- Telecommand Systems
- Security Systems
- Alarms
- Radio Data Communications
- Commercial / Industrial Telemetry



## Description

The R2705E is a radio data receiver to receive digital data. Baud rates of 300 to 2400 bps can be received (Can be used to 4800bps with reduced sensitivity). The low cost, small size, low current consumption makes it ideal for various applications.

RX-Data Slicer is set for Elsema Remote Control Signal (**Average 66%L-33%H**).

## Technical Data

Supply Voltage	4.5 - 5.5 VDC Absolute maximum 6.5VDC.
Current Consumption	3.5mA
Receiver Type	Dual Conversion Superheterodyne
Receiving Freq	27.195MHz (Other freq available on 27.045, 27.145, & 27.455MHz. The 27.455 freq is not available for Australia)
Oscillation System	VCO with 10ppm Crystal Controlled reference Oscillator
Operating Temperature Range	-5 to 50°C
IF Freq	10.7 MHz and 455KHz
Selectivity	-6dB at ±5kHz -20dB at ±6kHz
Sensitivity	Better than -107dBm or 1µV
Type of Demodulation	Frequency Shift Keying. (FSK)
Occupied Band Width	25KHz at -20dB.
Baud Rate	300-2400bps with 66/33% duty cycle (other duty cycles will degrade sensitivity)
Data Output Level	0-5V
Frequency Response	150 to 2400 Hz with 66/33% duty cycle (Other duty cycles will degrade sensitivity)
Dimension	39 x 25 x 12mm
Weight	13 grams
Usable Transmitter	FMT-2712 Data Transmitter
Antenna	50 ohms, 27MHz Antenna

## Connection



\*Only **66/33%** duty cycle data is suitable for the R2705E receiver.

## Manufactured by

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