

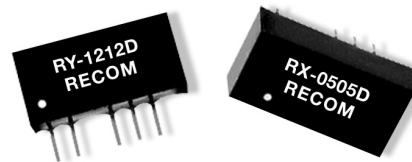
# ECONOLINE - DC/DC-Converter

RX and RY Series, 1 Watt, DIP14/SIP7, Regulated (Dual Output)

# RECOM

## Features

- Controllable Output
- 1kVDC Isolation
- UL94V-0 Package Material
- No Heatsink Required
- Fully Encapsulated
- No External Components
- Toroidal Magnetics

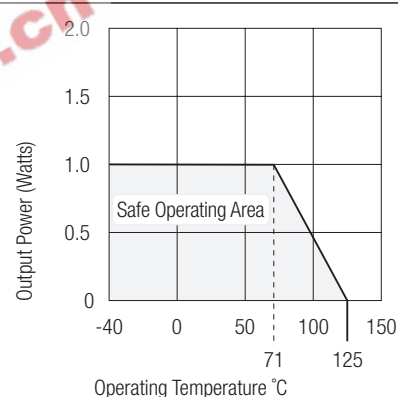


## Selection Guide

| Part Number<br>DIP14 | Part Number<br>SIP7 | Input Voltage<br>(VDC) | Output Voltage<br>(VDC) | Output Current<br>(mA) | Efficiency<br>(%) |
|----------------------|---------------------|------------------------|-------------------------|------------------------|-------------------|
| RX-XX05D             | RY-XX05D            | 5, 9, 12, 15, 24       | ±5 V                    | ±100                   | 54                |
| RX-XX09D             | RY-XX09D            | 5, 9, 12, 15, 24       | ±9 V                    | ±55                    | 58                |
| RX-XX12D             | RY-XX12D            | 5, 9, 12, 15, 24       | ±12 V                   | ±42                    | 62                |
| RX-XX15D             | RY-XX15D            | 5, 9, 12, 15, 24       | ±15 V                   | ±33                    | 65                |
| RX-XX24D             | RY-XX24D            | 5, 9, 12, 15, 24       | ±24 V                   | ±21                    | 65                |

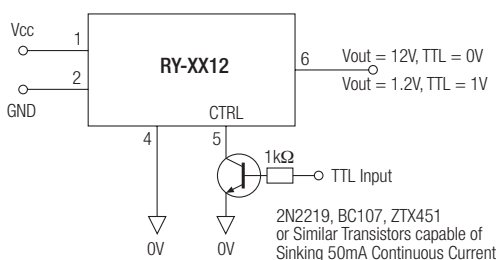
## Specifications (Core Operating Area) and Operating Temperature / Derating-Graph

|   |                                |
|---|--------------------------------|
| Input Voltage                                   | ±5%                            |
| Input Filter                                    | Capacitor Type                 |
| Output Voltage Accuracy                         | ±0.5%                          |
| Line Voltage Regulation                         | ±0.05% / ±1.0%                 |
| Load Voltage Regulation (20% to 100% full load) | ±0.5% / ±1.0%                  |
| Ripple and Noise (20MHz limited)                | 100mVp-p max.                  |
| Efficiency at Full Load                         | 50% min.                       |
| Isolation Voltage                               | 1.000VDC min.                  |
| Isolation Resistance (Viso = 500VDC)            | 10 GΩ min.                     |
| Isolation Capacitance                           | 40pF min./72pF max.            |
| Short Circuit Protection                        | 1 Second                       |
| Switching Frequency at Full Load                | 30kHz min. / 88kHz max.        |
| Operating Temperature                           | -40°C to +71°C (see Graph)     |
| Storage Temperature                             | -55°C to +125°C                |
| Package Weight                                  | RX types 2.7g<br>RY types 2.8g |

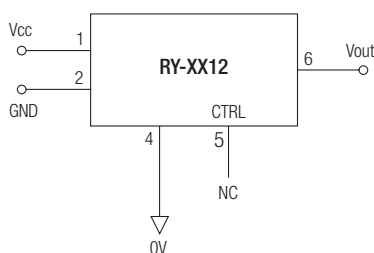


## Typical Applications

### Flash PROM Programming Voltage Control



### Normal Isolated Regulated Output



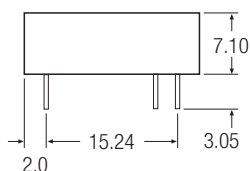
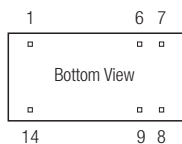
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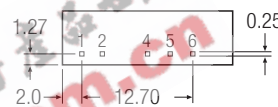
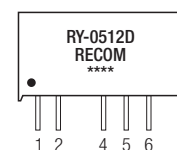
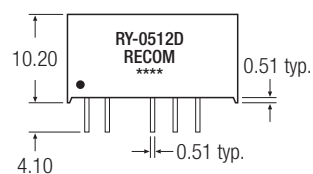
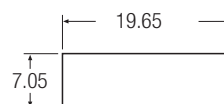
## Package Style and Pinning (mm)

### 14 PIN DIP Package

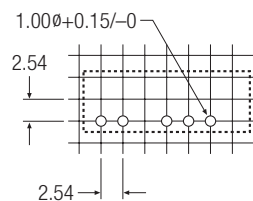
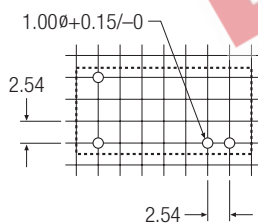


### 7 PIN SIP Package

3rd angle projection



### Recommended Footprint Details



### Pin Connections

| Pin # | RX     | RY     |
|-------|--------|--------|
| 1     | -Vin   | +Vin   |
| 2     | No Pin | -Vin   |
| 4     | No Pin | -Vout  |
| 5     | No Pin | Com    |
| 6     | +Vout  | +Vout  |
| 7     | Com    | No Pin |
| 8     | -Vout  | No Pin |
| 9     | Com    | No Pin |
| 14    | +Vin   | No Pin |

XX.X ± 0.5 mm  
XX.XX ± 0.25 mm