

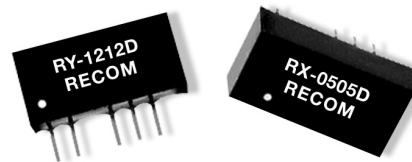
ECONOLINE - DC/DC-Converter

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

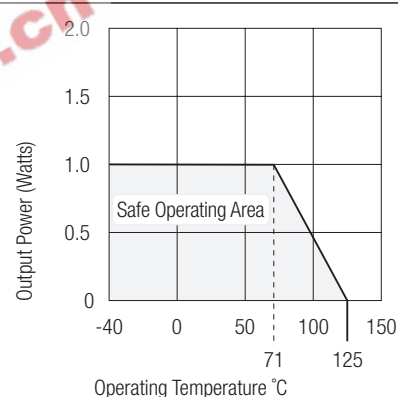


Selection Guide

| Part Number DIP14 | Part Number SIP7 | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Efficiency (%) |
|----------------------|---------------------|------------------------|-------------------------|------------------------|-------------------|
| 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 |

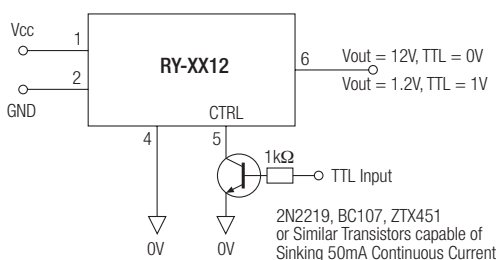
Specifications (Core Operating Area) and Operating Temperature / Derating-Graph

| | |
|---|--------------------------------|
| 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 RY types 2.8g |

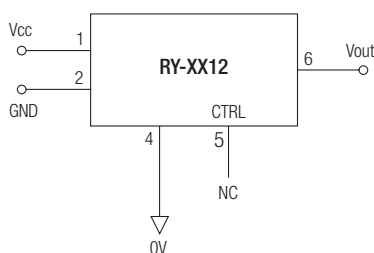


Typical Applications

Flash PROM Programming Voltage Control



Normal Isolated Regulated Output



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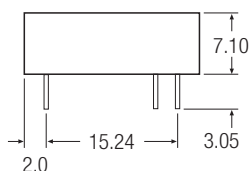
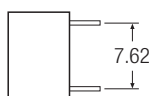
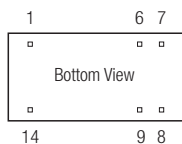
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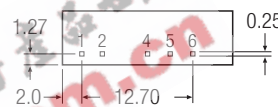
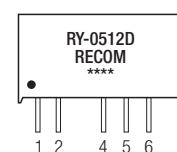
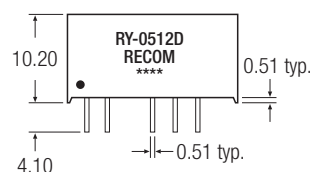
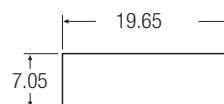
Package Style and Pinning (mm)

3rd angle projection 

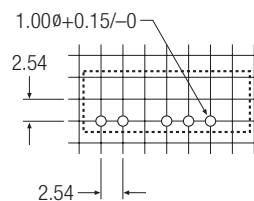
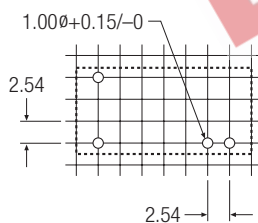
14 PIN DIP Package



7 PIN SIP Package



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