

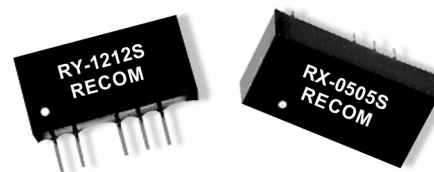
# ECONOLINE - DC/DC-Converter

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

# RECOM

## Features

- Load Voltage Regulation <1.5%
- Controllable Output
- 1kVDC Isolation
- SIP & DIP Package Styles
- UL 94V-0 Package Material
- No Heatsink Required
- Toroidal Magnetics
- Fully Encapsulated

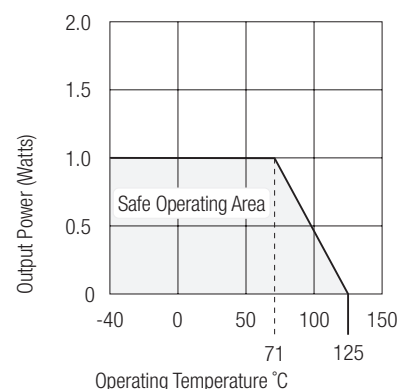


## Selection Guide

Part Number DIP14	Part Number SIP7	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
RX-XX05S	RY-XX05S	5, 9, 12, 15, 24	5	180	58-60
RX-XX09S	RY-XX09S	5, 9, 12, 15, 24	9	111	56-62
RX-XX12S	RY-XX12S	5, 9, 12, 15, 24	12	84	60-66
RX-XX15S	RY-XX15S	5, 9, 12, 15, 24	15	66	60-66
RX-XX24S	RY-XX24S	5, 9, 12, 15, 24	24	42	60-68

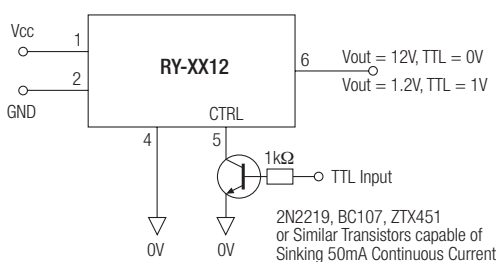
## Specifications (Core Operating Area) and Operating Temperature / Derating-Graph

Input Voltage	±5%	
Input Filter	Capacitor Type	
Output Voltage Accuracy	±5%	
Line Voltage Regulation	±1%	
Load Voltage Regulation (10% to 100% full load)	±1%	
Ripple and Noise Output	100mVp-p max.	
Efficiency at Full Load	50% min.	
Isolation Voltage	1.000VDC min.	
Isolation Resistance (Viso = 500VDC)	10 GΩ min.	
Isolation Capacitance	30pF min./150pF 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	2.9g
	RY types	2.8g

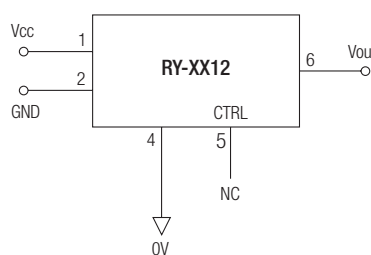


## Typical Applications

### Flash PROM Programming Voltage Control



### Normal Isolated Regulated Output



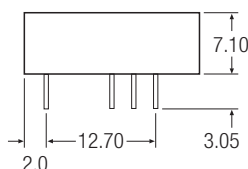
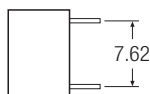
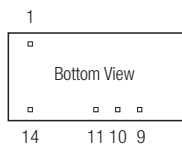
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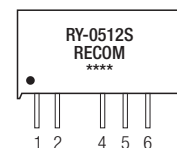
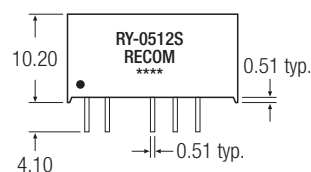
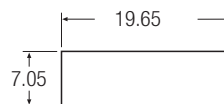
## Package Style and Pinning (mm)

### 8 PIN DIP Package

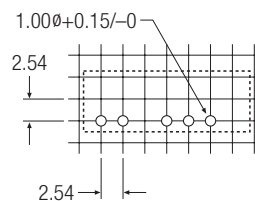
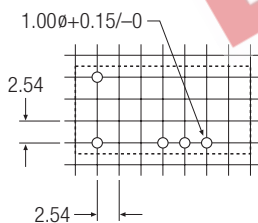


### 7 PIN SIP Package

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	CTRL
6	No Pin	+Vout
9	+Vout	No Pin
10	CTRL	No Pin
11	-Vout	No Pin
14	+Vin	No Pin

XX.X  $\pm$  0.5 mm  
XX.XX  $\pm$  0.25 mm