

# ECONOLINE - DC/DC-Converter

RT Series, 1 Watt, DIP14, Isolated Outputs (Dual Output)

**RECOM**

## Features

- Twin Independent Outputs
- Output/Output Isolation 1kVDC
- Power Sharing on Outputs
- Input/Output Isolation 1kVDC
- No Heatsink Required
- Toroidal Magnetics
- No Extern. Components Required
- Custom Solutions Available
- UL94V-0 Package Material
- Efficiency to 80%

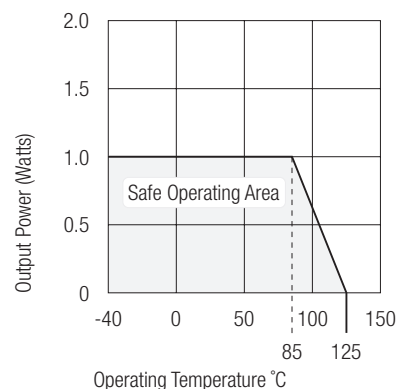


## Selection Guide

Part Number DIP 14	Input Voltage (VDC)	Output Voltage (V1VDC)	Output Voltage (V2VDC)	Output Current (mA)	Efficiency (%)
RT-XX1.81.8	1.8, 3.3, 5, 9, 12, 24	1.8	1.8	278/278	70
RT-XX3.33.3	1.8, 3.3, 5, 9, 12, 24	3.3	3.3	132/152	70
RT-XX0505	1.8, 3.3, 5, 9, 12, 24	5	5	100/100	70-78
RT-XX0909	1.8, 3.3, 5, 9, 12, 24	9	9	55/55	75-80
RT-XX1212	1.8, 3.3, 5, 9, 12, 24	12	12	42/42	78-84
RT-XX1515	1.8, 3.3, 5, 9, 12, 24	15	15	33/33	80-84
RT-XX0524	1.8, 3.3, 5, 9, 12, 24	24	24	21/21	80-84

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

Input Voltage	±10%	
Input Filter	Capacitor Type	
Output Voltage Accuracy	±5%	
Line Voltage Regulation	1,2%/1% V Input	
Load Voltage Regulation (10% to 100% full load)	1.8V, 3.3V output types 5V output type 9V, 12V, 15V, 24V output types	20% max. 15% max. 10% max.
Ripple and Noise (20MHz limited)	100mVp-p max.	
Efficiency at Full Load	70% min.	
Isolation Voltage	1.000VDC min.	
Isolation Resistance (Viso = 500VDC)	10 GΩ min.	
Isolation Capacitance	20pF min./94pF max.	
Short Circuit Protection	1 Second	
Switching Frequency at Full Load	100kHz typ.	
Operating Temperature	-40°C to +85°C (see Graph)	
Storage Temperature	-55°C to +125°C	
Package Weight	2.7g	



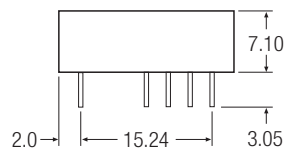
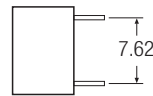
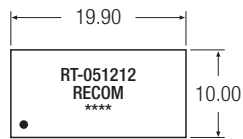
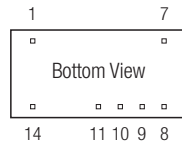
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# RECOM

## Package Style and Pinning (mm)

### 14 PIN DIP Package

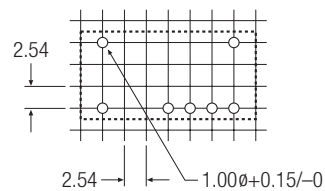


### Pin Connections

Pin #	Dual
1	-Vin
7	NC
8	-Vout 2
9	+Vout 2
10	-Vout 1
11	+Vout 1
14	+Vin

NC = No Connection

### Recommended Footprint Details



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