

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%

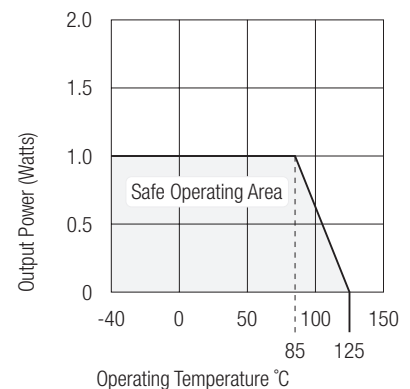


Selection Guide

| 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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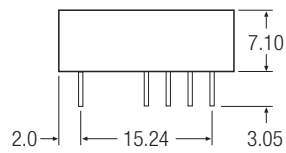
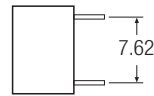
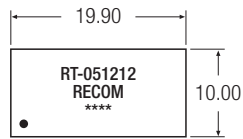
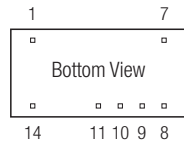
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Package Style and Pinning (mm)

14 PIN DIP Package

3rd angle projection 

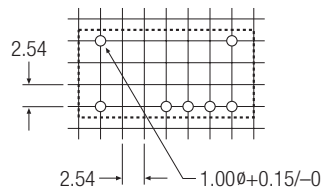


Pin Connections

| 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