

# ECONOLINE - DC/DC-Converter

RI Series, 2 Watt, SIP4 (Single Output)

RECOM

## Features

- 1kVDC Isolation
- No Heatsink Required
- No Extern. Components Required
- Custom Solutions Available
- UL94V-0 Package Material
- Efficiency to 80%

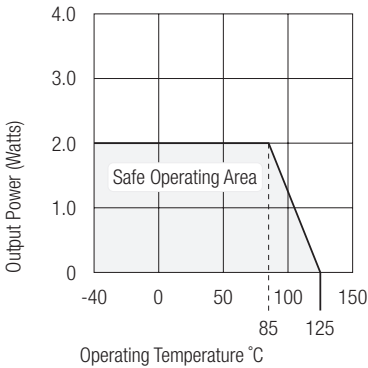


## Selection Guide

| Part Number<br>SIP4 | Input Voltage<br>(VDC) | Output Voltage<br>(VDC) | Output Current<br>(mA) | Efficiency<br>(%) |
|---------------------|------------------------|-------------------------|------------------------|-------------------|
| RI-XX3.3            | 5, 9, 12, 15, 24       | 3.3                     | 606                    | 70                |
| RI-XX05             | 5, 9, 12, 15, 24       | 5                       | 400                    | 75                |
| RI-XX07             | 5, 9, 12, 15, 24       | 7                       | 285                    | 72                |
| RI-XX09             | 5, 9, 12, 15, 24       | 9                       | 222                    | 76                |
| RI-XX12             | 5, 9, 12, 15, 24       | 12                      | 168                    | 78                |
| RI-XX15             | 5, 9, 12, 15, 24       | 15                      | 132                    | 80                |
| RI-XX24             | 5, 9, 12, 15, 24       | 24                      | 83                     | 80                |

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

|  |                                    |          |
|--|------------------------------------|----------|
| Input Voltage                                      | $\pm 10\%$                         |          |
| Input Filter                                       | Capacitor Type                     |          |
| Output Voltage Accuracy                            | $\pm 5\%$                          |          |
| Line Voltage Regulation                            | 1,2%/1% V Input                    |          |
| Load Voltage Regulation<br>(10% to 100% full load) | 3.3V output type                   | 20% max. |
|  | 5V output type                     | 15% max. |
|  | 7V, 9V, 12V, 15V, 24V output types | 10% max. |
| Efficiency at Full Load                            | 70% min.                           |          |
| Isolation Voltage                                  | 1.000VDC min.                      |          |
| Isolation Resistance (Viso = 500VDC)               | 10 G $\Omega$ min.                 |          |
| Isolation Capacitance                              | 30pF min./85pF max.                |          |
| Short Circuit Protection                           | 1 Second                           |          |
| Switching Frequency at Full Load                   | 35kHz min. / 85kHz max.            |          |
| Operating Temperature                              | -40°C to +85°C (see Graph)         |          |
| Storage Temperature                                | -55°C to +125°C                    |          |
| Package Weight                                     | 1.4g                               |          |



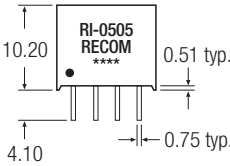
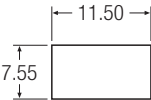
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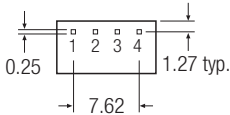
## Package Style and Pinning (mm)

### 4 PIN SIP Package

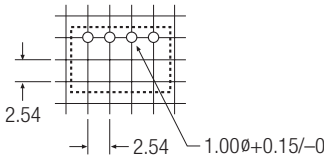


### Pin Connections

| Pin # | Dual  |
|-------|-------|
| 1     | -Vin  |
| 2     | +Vin  |
| 3     | -Vout |
| 4     | +Vout |



### Recommended Footprint Details



XX.X ± 0.5 mm  
XX.XX ± 0.25 mm