

ECONOLINE - DC/DC-Converter

RECOM

RI Series, 2 Watt, SIP4 (Single Output)

Features

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

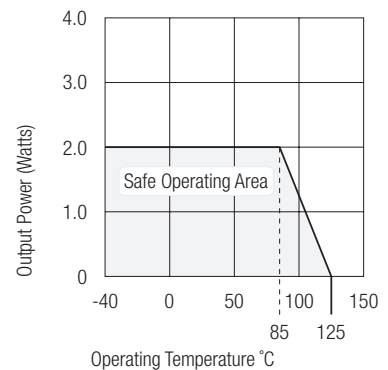


Selection Guide

| Part Number SIP4 | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Efficiency (%) |
|---------------------|------------------------|-------------------------|------------------------|-------------------|
| 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 |

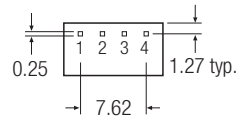
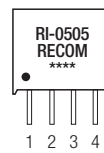
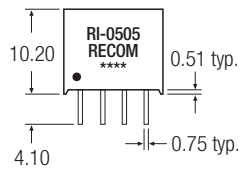
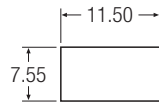
Specifications (Core Operating Area) and Operating Temperature / Derating-Graph

| | |
|--|---|
| Input Voltage | ±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) | 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 GΩ 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 |



Package Style and Pinning (mm)

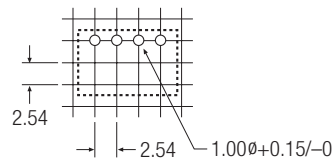
4 PIN SIP Package



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