**Features**

- Industry Standard Pinout
- 1kVDC or 2kVDC Isolation
- UL94V-0 Package Material
- Optional Continuous Short Circuit Protected
- Fully Encapsulated
- Custom Solutions Available
- Efficiency to 85%

**Unregulated Converter**

**Specifications** (measured at \( T_A = 25°C \), nominal input voltage, full load and after warm-up)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Input Voltage (VDC)</th>
<th>Output Voltage (VDC)</th>
<th>Output Current (mA)</th>
<th>Efficiency (%)</th>
<th>Max Capacitive Load (( \mu F ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE-024S</td>
<td>3.3, 5, 12, 15, 24</td>
<td>24</td>
<td>42</td>
<td>78-85</td>
<td>220µF</td>
</tr>
<tr>
<td>RE-0505S</td>
<td>3.3, 5, 12, 15, 24</td>
<td>5</td>
<td>200</td>
<td>78-80</td>
<td>1000µF</td>
</tr>
<tr>
<td>RE-0909S</td>
<td>3.3, 5, 12, 15, 24</td>
<td>9</td>
<td>111</td>
<td>78-80</td>
<td>1000µF</td>
</tr>
<tr>
<td>RE-1212S</td>
<td>3.3, 5, 12, 15, 24</td>
<td>12</td>
<td>83</td>
<td>80-84</td>
<td>470µF</td>
</tr>
<tr>
<td>RE-1515S</td>
<td>3.3, 5, 12, 15, 24</td>
<td>15</td>
<td>66</td>
<td>80-84</td>
<td>470µF</td>
</tr>
<tr>
<td>RE-2424S</td>
<td>3.3, 5, 12, 15, 24</td>
<td>24</td>
<td>42</td>
<td>78-85</td>
<td>220µF</td>
</tr>
</tbody>
</table>

\( xx \) = Input Voltage (other input and output voltage combinations available on request)

* add Suffix “P” for Continuous Short Circuit Protection, e.g., RE-0505S/P, RE-0505S/HP

**Description**

The RE DC/DC converters are typically used in general purpose power isolation and voltage matching applications, and feature a full industrial operating temperature range of -40°C to +85°C without derating.

**Selection Guide**

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**1 Watt**

**SIP7**

**Single Output**

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**Derating-Graph**

(Ambient Temperature)

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**ECONOLINE**

DC/DC-Converter

with 3 year Warranty

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**Refer to Application Notes**
**ECONOLINE**

**DC/DC-Converter**

### Specifications (measured at $T_A = 25^\circ\text{C}$, nominal input voltage, full load and after warm-up)

- **CB Test Report**: Report: US/15348/UL
- **UL General Safety**: Report: E358085
- **EN General Safety**: Report: SPCIVD1109103
- **IEC 60950-1:2005 2nd Edition**
- **UL 60950-1 2nd Edition**
- **EN60950-1:2006 + A12:2011**

### Notes

**Note 1**

Maximum capacitive load is defined as the capacitive load that will allow start up in under 1 second without damage to the converter.

### Typical Characteristics

#### RE-xx05S

**Efficiency / Load**

- Efficiency % vs Total Output current (%)

**Deviation / Load**

- Deviation from Normal (%)

#### RE-xx12S

**Efficiency / Load**

- Efficiency % vs Total Output current (%)

**Deviation / Load**

- Deviation from Normal (%)

#### RE-xx15S

**Efficiency / Load**

- Efficiency % vs Total Output current (%)

**Deviation / Load**

- Deviation from Normal (%)

### Package Style and Pinning (mm)

#### 7 PIN SIP Package

- **RE Pin Connections**
  - Pin # | Single
  - 1   | +Vin
  - 2   | –Vin
  - 4   | –VoU
  - 6   | +VoU

- **Recommended Footprint Details**

- **RE Recommended footprint details**

- **RE Pin Configuration**

- **Bottom View**: 1.27 mm
  - 19.60 mm
  - 0.25 mm

- **Top View**: 2.54 mm
  - 1.00 mm + 0.15 mm

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