Features

Unregulated Converter

- 1:1 Input Range
- SMD Package
- Efficiency up to 75%
- 1kVDC Isolation
- Operating Temperature from -40°C to +85°C
- UL Certified

| Selection Guid | de | | | | |
|------------------------|---------------------------|----------------------------|---------------------------|---------------------------|-------------------------|
| tPart Number SMD | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Efficiency typ. (%) | Max. Capacitive Load |
| R1SE**-0505* | 5 | 5 | 200 | 75 | 1000μF |

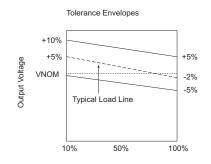
^{*} add suffix -R for tape & reel packing

Case and Pinning Options

** without marking denotes 5 pins out of 8 fitted with marking 8 denotes 8 pins out of 8 fitted

Specifications (measured at $T_A = 25$ °C, nominal input voltage full load and after warm up) Input Voltage Range ±10% max. Voltage set Accuracy 100% Load/nominal Vin -2% typ. / ±5% max. Line Regulation Low Line to High Line @ max. Load 1.2% typ. Load Regulation (10% to 100% Load) 10% typ. / 15% max. Ripple & Noise @ 20MHz BW 68mVp-p typ. / 100mVp-p max. Efficiency 100% Load 70% min. / 75% max. **Operating Temperature** -40°C to +85°C Storage Temperature -55°C to +125°C Isolation Test Voltage (tested for 1 second) 1000VDC 500VAC / 60Hz (rated for 1 minute***) Isolation Capacitance 75pF max. Isolation Resistance Viso = 500V $10~\text{G}\Omega$ min. Humidity 95% max. Operating Frequency Vin (nom.) 20kHz min. / 70 kHz max. **Short-Circuit Protection** 1 Second Weight 1.0g MTBF Using MIL-HDBK 217F (+90°C) 172 x 103 hours Using MIL-HDBK 217F (+25°C) 1022 x 103 hours Detailed Information see Application Notes chapter "MTBF" Certification **UL General Safety** Report: E358085-A2 UL60950-1

Tolerance Envelopes



⁺Vout and -Vout load current (%)

ECONOLINE

DC/DC-Converter with 3 year Warranty



1 Watt SMD Isolated Single Output







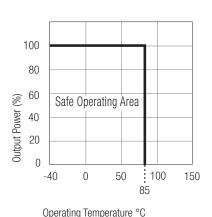


UL-60950-1 Certified

RISE

Derating-Graph

(Ambient Temperature)



Refer to Application Notes

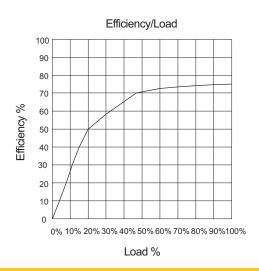
^{***}Any data referred to in this datasheet are of indicative nature and based on our practical experience only. For further details, please refer to our Application Notes.

ECONOLINE

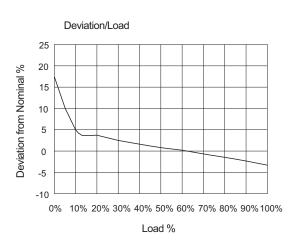
DC/DC-Converter

R15E-0505 Series

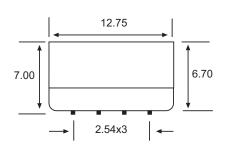
Typical Characteristics

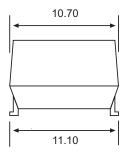


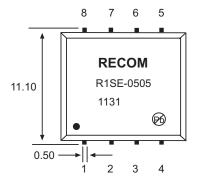
R1SE-0505

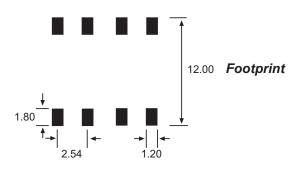


Package Style and Pinning (mm)









Pin Connections

| • | шπ | i unction for 5 i ins | Tunction for or ma | |
|---|----------------|-----------------------|--------------------|--|
| | 1 | –Vin | - Vin | |
| | 2 | +Vin | +Vin | |
| | 4 | -Vout | -Vout | |
| | 5 | +Vout | +Vout | |
| 3 | B, 6, 7 No Pin | | NC | |
| | 8 NC | | NC | |
| | | | | |

NC= No Connection

UNIT: mm TOL.: \pm 0.25 mm