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 Guide					
Part Number SMD	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency typ. (%)	
R1SE**-0505*	5	5	200	75	

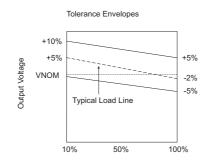
^{*}add suffix -R for tape & reel packing

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 $T_A = 25^{\circ}$ C, nominal input voltage full load and after warm up) Input Voltage Range ±10% max. Voltage set accurancy 100% Load/nominal Vin -2% typ. / ±5% max. Line Regulation Low Line to High Line @ max. Load 1.2% typ. (10% to 100% Load) Load Regulation 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 (rated for 1 minute***) 500VAC / 60Hz 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







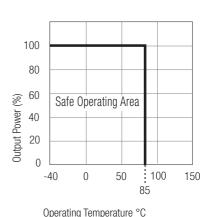


UL-60950-1 Certified

RISE

Derating-Graph

(Ambient Temperature)



Refer to Application Notes

mmm·recom-bomer·com

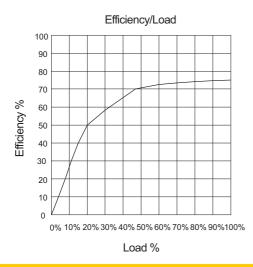
^{***}Any data referred to in this datasheet are of indivative nature and based on our practical experience only. For further details, please refer to our Application Notes.

ECONOLINE

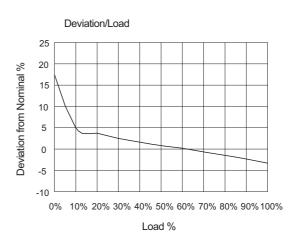
DC/DC-Converter

R15E-0505 Series

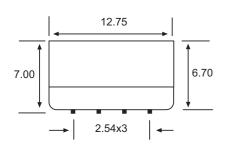
Typical Characteristics

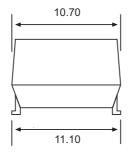


R1SE-0505

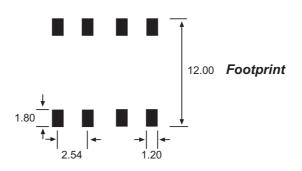


Package Style and Pinning (mm)





8 7 6 5 RECOM R1SE-0505 1131 0.50 1 2 3 4



Pin Connections

Function for 5 Pins	Funtion for 8 Pins	
–Vin	- Vin	
+Vin	+Vin	
-Vout	-Vout	
+Vout	+Vout	
No Pin	NC	
NC	NC	
	-Vin +Vin -Vout +Vout No Pin	

NC= No Connection

UNIT: mm TOL.: ± 0.25 mm