

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

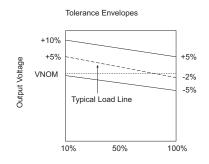
^{*} add suffix -R for tape & reel packing

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 = 500V10 G Ω 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 (%)

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DC/DC-Converter with 3 year Warranty



1 Watt SMD Isolated Single Output







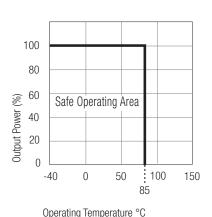


UL-60950-1 Certified

RISE

Derating-Graph

(Ambient Temperature)



Refer to Application Notes

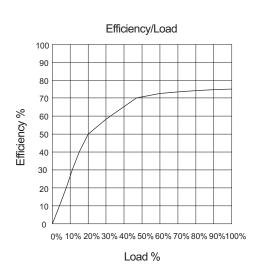
^{***}Any data referred to in this datasheet are of indicative nature and based on our practical experience only. For further details, please refer to our Application Notes.

ECONOLINE

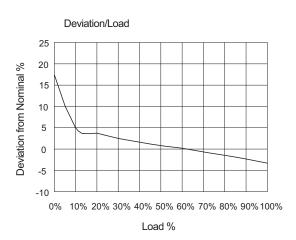
DC/DC-Converter

R15E-0505 Series

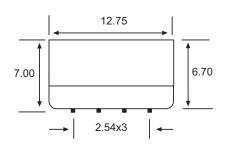
Typical Characteristics

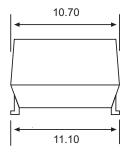


R1SE-0505

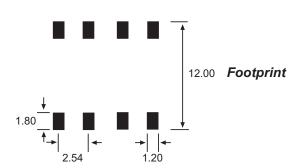


Package Style and Pinning (mm)





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



Pin Connections

Pin#	Function for 5 Pins	Function for 8 Pins	
1	–Vin	- Vin	
2	+Vin	+Vin	
4	-Vout	-Vout	
5	+Vout	+Vout	
3, 6, 7	No Pin	NC	
8	NC	NC	

NC= No Connection

UNIT: mm TOL.: ± 0.25 mm