Features

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

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

Part Number SIP 7	(2kV)	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)	Max Capacitive Load ⁽¹⁾
RE-xx3.3S	(H)	3.3, 5, 12, 15, 24	3.3	303	75	2200µF
RE-xx05S	(H)	3.3, 5, 12, 15, 24	5	200	78-80	1000µF
RE-xx09S	(H)	3.3, 5, 12, 15, 24	9	111	78-80	1000µF
RE-xx12S	(H)	3.3, 5, 12, 15, 24	12	83	80-84	470µF
RE-xx15S	(H)	3.3, 5, 12, 15, 24	15	66	80-84	470µF
RE-xx24S	(H)	3.3, 5, 12, 15, 24	24	42	78-85	220µF

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

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

	·		17			
Input Voltage Ran	±10%					
Output Voltage Ad	ccuracy		±5%			
Line Voltage Regu	ulation	1.2%/1% of Vin typ.				
Load Voltage Reg	julation	3.3V output type	20% max.			
(10% to 100% fu	III load)	5V output type	15% max.			
		9V, 12V, 15V, 24V output type	es 10% max.			
Output Ripple and	d Noise (20MHz limited)		100mVp-p max.			
Operating Frequency 50kHz min. / 100kHz typ. / 105kHz max						
Efficiency at Full Load 70% min. / 80% typ						
Minimum Load =	inimum Load = 0% Specifications valid for 10% minimum load only					
Isolation Voltage		(tested for 1 second)	1000VDC			
		(rated for 1 minute**)	500VAC / 60Hz			
Isolation Voltage	H-Suffix	(tested for 1 second)	2000VDC			
	H-Suffix	(rated for 1 minute**)	1000VAC / 60Hz			
Isolation Capacita	ance	20pF min. / 75pF max.				
Isolation Resistance 10 GΩ min						
Short Circuit Prot	1 Second					
P-Suffix	Continuous					
Operating Temperature Range (free air convection) -40°C to +85°C (see Gra						
Storage Temperature Range -55°C to +						
Relative Humidity	1		95% RH			
Package Weight						
Packing Quantity			25 pcs per Tube			
МТВF (+25°С) <u>\</u>	Detailed Information see	using MIL-HDBK 217F	992 x 10 ³ hours			
(+85°C)∫	Application Notes chapter	"MTBF" using MIL-HDBK 217F	145 x 10 ³ hours			
			continued on port page			

continued on next page

**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 with 3 year Warranty



1 Watt SIP7 Single Output





EN-60950-1 Certified UL-60950-1 Certified

RE

Derating-Graph

(Ambient Temperature)



ECONOLINE DC/DC-Converter

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

Certifications **CB** Test Report

UL General Safety EN General Safety Report: US/15348/UL Report: E358085 Report: SPCLVD1109103

IEC 60950-1:2005 2nd Edition UL 60950-1 2nd Edition EN60950-1:2006 + A12:2011

Series

RE

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



The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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XX.XX ± 0.25 mm