imall

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!



Contact us

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Features

- Industry Standard Pinout
- 1kVDC or 2kVDC Isolation
- UL94V-0 Package Material
- Optional Continuous Short Circuit Protected
- Converter

Unregulated

- 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)

	A A	· · · · · · · · · · · · · · · · · · ·	17			
Input Voltage Range			±10%			
Output Voltage Accura		±5%				
Line Voltage Regulation	n	1.2%/1% of Vin typ.				
Load Voltage Regulati	on	3.3V output type	20% max.			
(10% to 100% full loa	ıd)	5V output type	15% max.			
		9V, 12V, 15V, 24V output type	es 10% max.			
Output Ripple and Noi	se (20MHz limited)		100mVp-p max.			
Operating Frequency 50kHz min. / 100kHz typ. / 105kHz max.						
Efficiency at Full Load			70% min. / 80% typ.			
Minimum 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 Capacitance	20pF min. / 75pF max.					
Isolation Resistance 10 GΩ n						
Short Circuit Protection 1						
P-Suffix		Continuous				
Operating Temperatur	e Range (free air conv	vection)	-40°C to +85°C (see Graph)			
Storage Temperature	Range		-55°C to +125°C			
Relative Humidity			95% RH			
Package Weight			2.2g			
Packing Quantity			25 pcs per Tube			
MTBF (+25°C)	ailed Information see	using MIL-HDBK 217F	992 x 10 ³ hours			
(+85°C) ∫ <i>App</i>	lication Notes chapter "I	MTBF" using MIL-HDBK 217F	145 x 10 ³ hours			
			continued on next nade			

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.



DC/DC-Converter with 3 year Warranty



1 Watt SIP7 Single Output



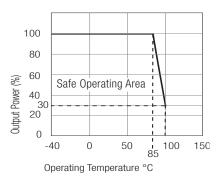


EN-60950-1 Certified UL-60950-1 Certified

RE

Derating-Graph

(Ambient Temperature)



Refer to Application Notes

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

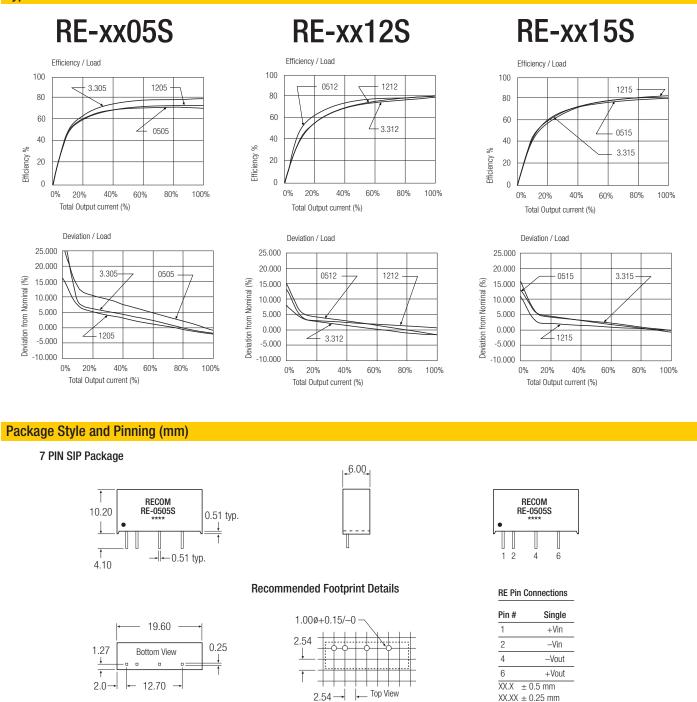
Series

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