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

- Low Cost
- 1:1 Input Voltage Range

Unregulated Converters

- Efficiency up to 81%
- 4kVDC/1 second Isolation
- IEC/EN/UL Certified

Description

The RKE/H DC/DC converters are typically used in cost sensitive general purpose power isolation and voltage matching applications. Despite their low cost, they are fully specified converters with 4kVdc isolation, industrial operating temperature range of -40°C to +85°C without derating and UL/EN certifications.

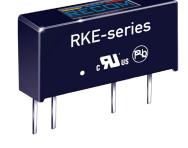
Selection Guide

Part Number	Input Voltage [VDC]	Output Voltage [VDC]	Output Current [mA]	Efficiency typ. ⁽¹⁾ [%]	max. Capacitive Load ⁽²⁾ [µF]
RKE-0505S/H	5	5	200	75	1000
RKE-1205S/H	12	5	200	80	1000
RKE-2405S/H	24	5	200	81	1000

Notes:

Note1: Values at nominal input voltage and full load.

Note2: Test by minimum Vin and constant resistor load.



RECO

RKE/H

1 Watt

Package

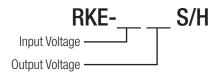
SIP7

DC/DC Converter



UL60950-1 Certified EN55022 Compliant

Model Numbering



Ordering Examples:

RKE-0505S/H, 5Vin and 5Vout, Single Output RKE-2405S/H, 24Vin and 5Vout, Single Output

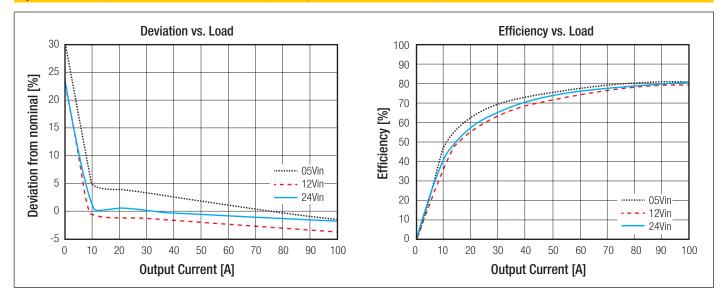
BASIC CHARACTERISTICS					
Parameter	Condition	Min.	Тур.	Max.	
Input Voltage Range		-10%		+10%	
Input Filter			inter	nal capacito	
Operating Frequency			80kHz		
Minimum Load		0%			
Output Ripple and Noise	measured with 20MHz bandwidth and a 0.1µF ceramic capacitor		40mVp-p	100mVp-p	

continued on next page

RECOM DC/DC Converter

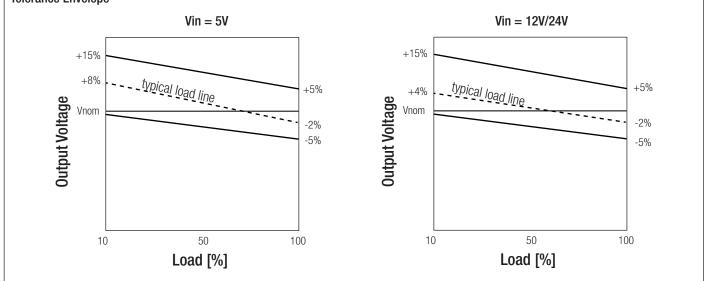
RKE/H Series

Specifications (measured at ta= 25°C, nominal input voltage, full load, otherwise noted)



REGULATIONS Condition Parameter Values Output Voltage Accuracy ±5% typ. Line Voltage Regulation low line to high line ±1.2% typ. @1% of Vin Vin= 5V 8% typ., 15% max Load Voltage Regulation 10% to 100% load Vin = 12V 3% typ., 15% max Vin = 24V4% typ., 15% max

Tolerance Envelope

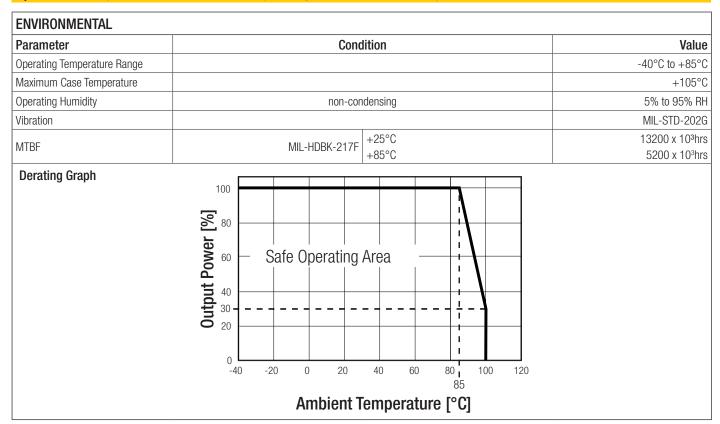


PROTECTIONS			
Parameter	Condition	Value	
Isolation Voltage	I/P to O/P	4kVDC / 1sec.	
Isolation Capacitance		45pF max.	
Isolation Resistance		1GΩ min.	

RECOM DC/DC Converter

RKE/H Series

Specifications (measured at ta= 25°C, nominal input voltage, full load, otherwise noted)

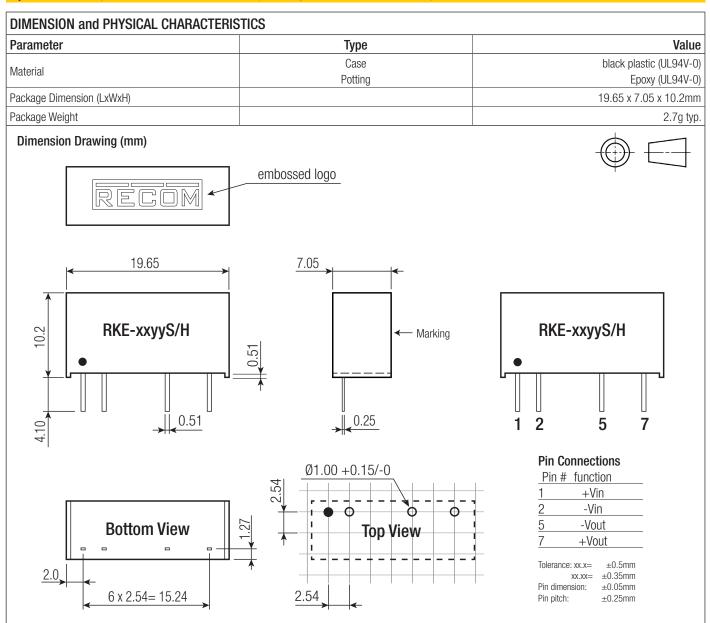


SAFETY AND CERTIFICATIONS					
Certificate Type R		eport / File Number		Standard	
IEC/EN General Safety		LVD1602031		IEC/EN60950-1, 2nd Edition, 201	
UL General Safety		5050005 44		UL60950-1, 2nd Edition, 2007	
CAN/CSA General Safety		E358085-A4		CSA C22.2 No. 60601-1, 2nd Edition, 200	
EMC Compliance		Condition		Standard / Criterion	
EMI conducted and radiated emission		with external filter		EN55022, Class E	
+Vin∘ : -Vin∘				—∘ +Vout —∘ -Vout	
	MODEL	C1	L1	_	
	RKE-0505S/H	10µF	4.7µH		
	RKE-1205S/H	4.7µF	22µH		
	RKE-2405S/H	2.2µF	47µH		

RECOM DC/DC Converter

RKE/H Series





PACKAGING INFORMATION			
Packaging Dimension (LxWxH)	Tube	520 x 9.3 x 16.5mm	
Packaging Quantity		25pcs	
Storage Temperature Range		-55°C to +125°C	

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.