Features

Unregulated Converter

• Low Cost 1W Converter

- 4kVDC/1 sec High Isolation
- Low Output Ripple
- Wide Operating Temperature Range of -40°C to +85°C
- Industry Standard Pinout
- UL Certified

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)	Max Capacitive Load ⁽¹⁾
SIP 7					
RKE-0505S/H	5	5	200	70	1200µf

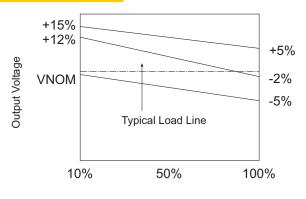
Specifications (measured at $T_A = 25^{\circ}$ C, nominal input voltage, full load and after warm-up)

Input Voltage Range		±10%		
Output Voltage Accuracy		-2% typ. / ±5% max.		
Efficiency (@ Full Load)		65% min. / 70% typ.		
Operating Frequency	50kHz n	nin / 65kHz typ. / 105kHz		
Output Ripple & Noise	55mVp	55mVp-p typ. / 100mVp-p max.		
Line Voltage Regulation	Low Line to High Line @ max. Load	1.2% typ. of 1% Vin		
Load Voltage Regulation	(10% to 100% Load)	12% typ. / 15% max.		
Isolation Voltage	(tested for 1 second*)	4kVDC		
	(rated for 1 minute*)	3kVDC		
Isolation Capacitance		75pF max.		
Isolation Resistance	Viso=500V	1G Ω min.		
Short Circuit Protection		1 sec.		
Operating Temperature Range		-40°C to +85°C		
Storage Temperature Range		-55°C to 125°C		
Humidity		95% max.		
ize 19.60mm x 10.20mm x 7.0		m x 10.20mm x 7.05mm		
Weight		2.7g		
MTBF (25°C)	using MIL-HDBK 217F	850 x 10 ³ hours		
(85°C)	using MIL-HDBK 217F	123 x 10 ³ hours		
Certification				
UL General Safety	Report: E358085-A4	UL60950-1		
*Any data referred to in this datasheet are of in to our Application Notes.	dicative nature and based on our practical experience on	y. For further details, please refer		

Notes

Note1: Maximum capacitive load is defined as the capacitive load that will allow start up in under 1 second without damage to the converter.

Tolerance Envelopes



+Vout load current (%)

ECONOLINE

DC/DC-Converter with 3 year Warranty



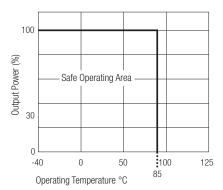
1 Watt SIP7 Single Output





Derating-Graph

(Ambient Temperature)

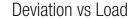


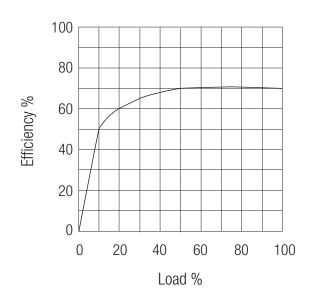
Refer to Application Notes



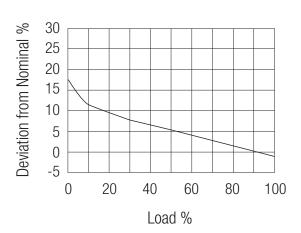
RKE-05055/H

Typical Characteristics





Efficiency vs Load



Pin Connections RKE-0505S/H

 $\begin{array}{l} \text{XX.X} & \pm \ 0.5 \ \text{mm} \\ \text{XX.XX} & \pm \ 0.25 \ \text{mm} \end{array}$

Single

+Vin

-Vin

-Vout

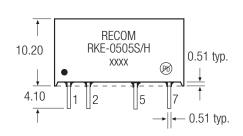
+Vout

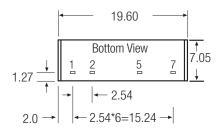
Pin #

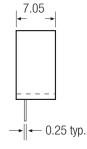
2

5

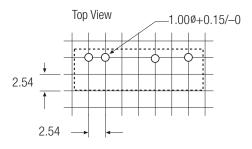
Package Style and Pinning (mm)







Recommended Footprint Details



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