Features

- Dual Output from a Single Input Rail
- Input/Output Isolation 1kVDC or 2kVDC

Unregulated Converters

- Output/Output Isolation 1kVDC
 Power Sharing on Outputs
- UL94V-O Package Material
- Optional Continuous Short Circuit Protected
- No External Components Required
- Efficiency to 85%

Description

The RUZ DC/DC converter offers two independent isolated outputs. Typical applications include multiple channel circuits where inter-channel isolation is also required. The /H option offers 2kVDC isolation between input and outputs. The /P option is with continuous short circuit protection on either or both outputs.

Selection Guide								
	Part Number SIP 7	2kV	Input Voltage (VDC)	Output Voltage (V1VDC)	Output Voltage (V2VDC)	Output Current (mA)	Efficiency (%)	Max Capacitive Load ⁽¹⁾
	RUZ-050505	(H)	5	5	5	200/200	70	470µF/470µF

xx = Input Voltage. Other input and output voltage combinations available on request.

* add Suffix "P" for Continuous Short Circuit Protection, e.g. RUZ-050505/P, RUZ-050505/HP

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

Input Voltage Range ±10%						
Output Voltage Accuracy ±5%						
Line Voltage Regulation		1.2%/1% of Vin typ.				
Load Voltage Regulation ((10% to 100% full load) 15% m						
Output Ripple and Noise (20MHz limited) 150mVp-p max						
Operating Frequency	Operating Frequency 20kHz min. / 50kHz typ. / 85kHz ma:					
Efficiency at Full Load				70% min. / 80% typ.		
Minimum Load = 0%			Specifications valid for 10% minimum load only.			
Isolation Voltage			d for 1 second)	1000VDC		
Input/Output and Output	nput/Output and Output/Output		for 1 minute**)	3200VAC / 60Hz		
Isolation Voltage	H-suffix	(teste	d for 1 second)	2000VDC		
Input/Output	H-suffix	(rated	for 1 minute**)	1000VAC / 60Hz		
Output/Output	Output/Output			1000VDC		
Isolation Capacitance 40pF min. / 120pF max						
Isolation Resistance $10 \text{ G}\Omega$ min.						
Short Circuit Protection 1 Second						
P-Suffix Continuous						
Operating Temperature Range (free air convection) -40°C to +85°C (see Graph)						
Storage Temperature Range -55°C to +125°C						
Relative Humidity 95% RH						
Package Weight 2.8g						
Packing Quantity 25 pcs per Tube						
MTBF (+25°C)) Deta) Detailed Information see		using MIL-HDBK 217F	988 x 10 ³ hours		
(+85°C) ∫ App	lication Notes chapter	"MTBF"	using MIL-HDBK 217F	135 x 10 ³ hours		
Certifications						
EN General Safety	Report: SPCLVE)1109103	}	EN60950-1:2006 + A12:2011		

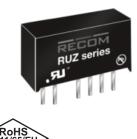
**Any data referred to in this datasheet are of indicative nature and based on our practical experience only. For further details, please refer to our Application Notes.

ECONOLINE

DC/DC-Converter with 3 year Warranty



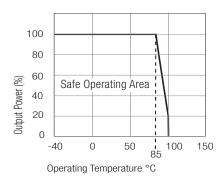
2 Watt SIP7 Isolated Dual Output



EN-60950-1 Certified

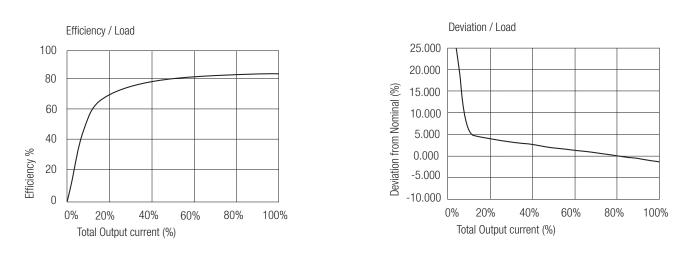
RUZ

Derating-Graph (Ambient Temperature)



ECONOLINE DC/DC-Converter

Typical Characteristics

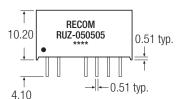


Notes

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.

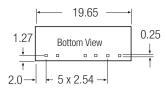
Package Style and Pinning (mm)

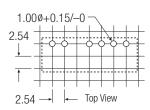
7 PIN SIP Package



←7.05→

Recommended Footprint Details





Dual Independent Outputs

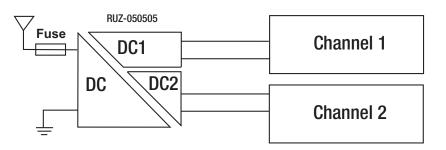
RECOM RUZ-050505 ****					
1	2	4567			

Pin Connections Pin # Single

1	+Vin
2	–Vin
4	+Vout 1
5	–Vout 1
6	+Vout 2
7	-Vout 2

XX.X ± 0.5 mm XX.XX ± 0.25 mm RUZ

Typical Application



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, inflit 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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