Features

• On/Off Pin

Regulated Converters

- 1kVDC Isolation
- UL94V-0 Package Material
- Optional Continuous Short Circuit Protected
 - Internal linear regulator
 - Efficiency to 70 %

Description

The RY series DC/DC converter is a low cost general purpose isolated converter with a built-in linear regulator to give a regulated, load-independent output. It is available with single or dual outputs. A useful feature is the CTRL pin on the single output version which allows to controll the converter with an external enable signal.

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Part Number	Input Voltage	Output Voltage	Output Current	Efficiency	Max Capacitive
SIP 7	(VDC)	(VDC)	(mA)	(%)	Load ⁽¹⁾
RY-xx05S	5, 9, 12, 15, 24	5	200	58-60	1200µF
RY-xx09S	5, 9, 12, 15, 24	9	111	56-62	1200µF
RY-xx12S	5, 9, 12, 15, 24	12	84	60-66	680µF
RY-xx15S	5, 9, 12, 15, 24	15	66	60-66	680µF
RY-xx24S	5, 9, 12, 15, 24	24	42	60-68	220µF
RY-xx05D	5, 9, 12, 15, 24	±5	±100	50-58	±470µF
RY-xx09D	5, 9, 12, 15, 24	±9	±55	52-60	±470µF
RY-xx12D	5, 9, 12, 15, 24	±12	±42	58-68	±330µF
RY-xx15D	5, 9, 12, 15, 24	±15	±33	62-68	±330µF
RY-xx24D	5, 9, 12, 15, 24	±24	±21	64-70	±100µF

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

* add Suffix "P" for Continuous Short Circuit Protection, e.g. RY-0505S/P, RY-0505D/P

Specifications (measured at $T_A = 25^{\circ}$ C, nominal input voltage, full load and after warm-up)						
Input Voltage Range	±5%					
Output Voltage Accuracy	±5%					
Line Voltage Regulation	±1% max.					
Load Voltage Regulation (10% to 100% f	±1% max.					
Minimum Load	10% (2)					
Output Ripple and Noise (20MHz limited)	100mVp-p max.					
Operating Frequency	kHz min. / 50kHz typ. / 88kHz max.					
Efficiency at Full Load	54% min. / 60% typ.					
Isolation Voltage	(tested for 1 second)	1000VDC				
	(rated for 1 minute**)	500VAC / 60Hz				
Isolation Capacitance	Single output types	30pF min. / 150pF max.				
	Dual output types	40pF min. / 72pF max.				
Isolation Resistance	10 G Ω min.					
Short Circuit Protection	1 Second					
P-Suffix	Continuous					
Operating Temperature Range (free air co	-40°C to +70°C (see Graph)					
Storage Temperature Range -55°C to						
Relative Humidity	95% RH					
Package Weight	es 2.8g					
Packing Quantity		25 pcs per Tube				
MTBF (+25°C)	using MIL-HDBK 217F	924 x 10 ³ hours				
(+70°C) ∫ Application Notes chapter	r "MTBF" using MIL-HDBK 217F	135 x 10 ³ hours				
Certifications						
EN General Safety Report: SPC	EN60950-1:2006 + A12:2011					

continued on next page

ECONOLINE

DC/DC-Converter with 3 year Warranty



1 Watt SIP7 Single & Dual Output

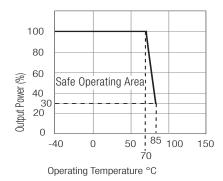


EN-60950-1 Certified

RY

Derating-Graph

(Ambient Temperature)



**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

RY Series

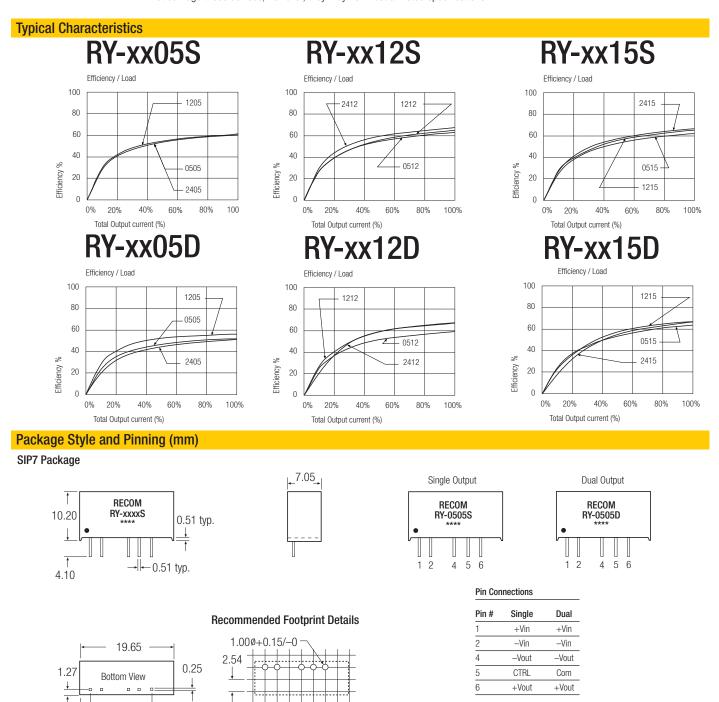
Specifications (measured at $T_A = 25^{\circ}$ C, nominal input voltage, full load and after warm-up)

Notes

Note 1:

Note 2:

Maximum capacitive load is defined as the capacitive load that will allow start up in under 1 second without damage to the converter The RY series requires a minimum of 10% load on the output to maintain specified regulation. Operating under no-load conditions will not damage these devices; however, they may not meet all listed specifications.



The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant 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.

Top View

2 54

XX.X ± 0.5 mm

XX.XX ± 0.25 mm

RY

2.0

5 x 2.54 -

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