Features

• Twin independent outputs

Power sharing on outputs

- 1kVDC or 2kVDC input/output basic isolation
- 1kVDC output/output isolation
- Unregulated Converters
- Standard and miniature versions
- Optional continued short circuit protected
- Efficiency up to 76%

Description

The RU DC/DC converter offers two independent isolated outputs. Typical applications include multiple channel circuits where inter-channel isolation is also required. The RUM offers similar specifications in a miniature case for applications where space is at a premium. Both converters offer 1KVDC input/output isolation and 1kVDC output/output isolation. The /H versions offer 2kVDC isolation between input and outputs.

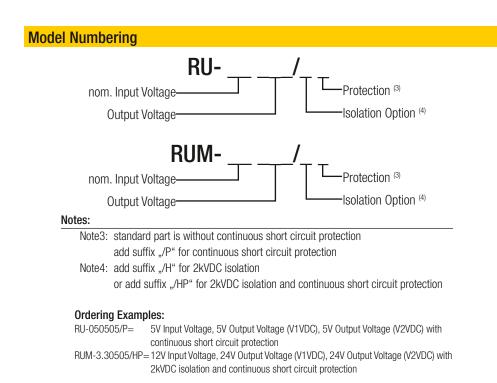
Selection Guide

Part Number	nom. Input Voltage	Output Voltage V1	Output Voltage V2	Output Current	Efficiency typ. ⁽¹⁾	max. Capacitive Load ⁽²⁾
	[VDC]	[VDC]	[VDC]	[mA]	[%]	[μ F]
RU-3.30505 (3,4)	3.3	5	5	100/100	76	470/470
RU-050505 (3,4)	5	5	5	100/100	72	470/470
RUM-3.30505 (3,4)	3.3	5	5	100/100	78	470/470
RUM-050505 (3,4)	5	5	5	100/100	72	470/470

Notes:

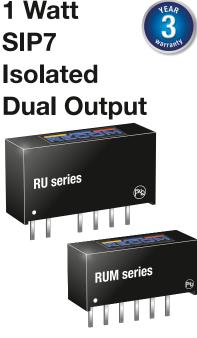
Note1: Efficiency is tested at nominal input and full load at +25°C ambient

Note2: Max Cap Load is tested at nominal input and full resistive load and is defined as the capacitive load that will allow start up in under 1s without damage to the converter



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RU/RUM



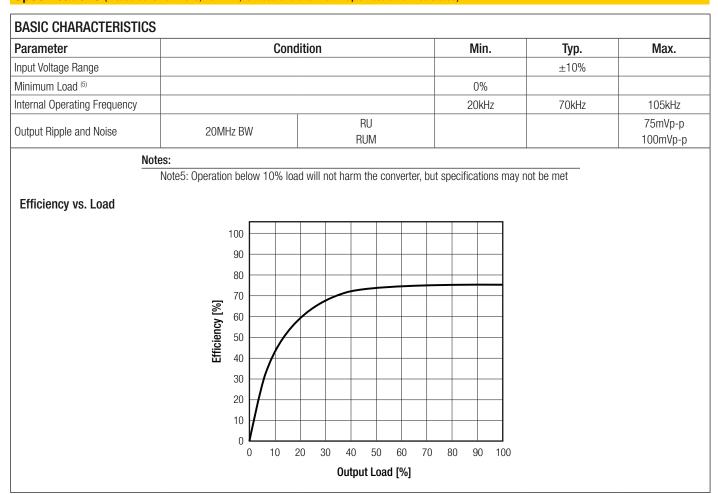


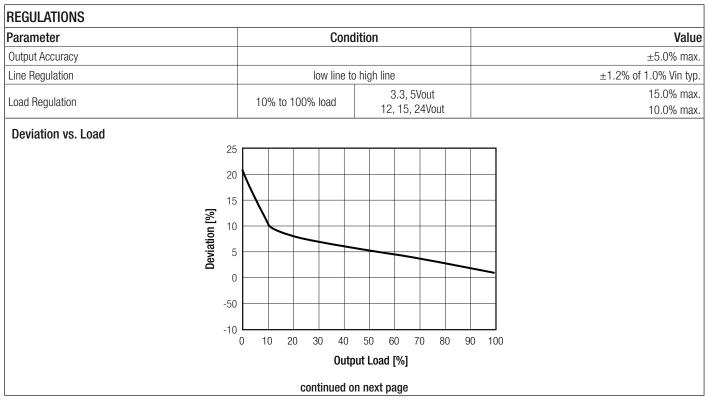
IEC60950-1 certified EN60950-1 certified

RECOM DC/DC Converter

RU/RUM Series

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)





RECOM DC/DC Converter

RU/RUM Series

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

PROTECTIONS				
Parameter		Туре	Value	
Short Circuit Protection (SCP)		without s with suffix	1 second continuous	
Isolation Voltage ⁽⁶⁾		without suffix	tested for 1 second rated for 1 minute	1kVDC 500VAC / 60Hz
	I/P to O/P	with suffix "/H"	tested for 1 second rated for 1 minute	2kVDC 1kVAC / 60Hz
	0/P1 to 0/P2		tested for 1 second	1kVDC
Isolation Resistance				10GΩ min.
Isolation Capacitance				20pF min. / 94pF max.
Insulation Grade				basic
Notes:	-Pot testing, reduce the tin	a and/or the test	veltage	

Note7: Refer to local wiring regulations if input over-current protection is also required. Recommended fuse: T1A slow blow type

ENVIRONMENTAL		
Parameter	Condition	Value
Operating Temperature Range	full load @ free air convection (see graph)	-40°C to + 85°C
Operating Altitude		2000m
Operating Humidity	non-condensing	95% RH max.
Pollution Degree		PD2
MTBF	according to MIL-HDBK-217F, G.B. +25°C +85°C	1012 x 10 ³ hours 151 x 10 ³ hours
Derating Graph (@free air convection)	100 90 90 90 90 90 90 90 90 90	

SAFETY AND CERTIFICATIONS				
Certificate Type (Safety)	Report / File Number	Standard		
Information Technology Equipment, General Requirements for Safety	1602031	IEC60950-1:2005, 2nd Edition + A2:2013 EN60950-1:2006 + A2:2013		
EAC	RU-AT.49.09571	TP TC 004/2011		
RoHs 2+		RoHS-2011/65/EU + AM-2015/863		

RECOM DC/DC Converter

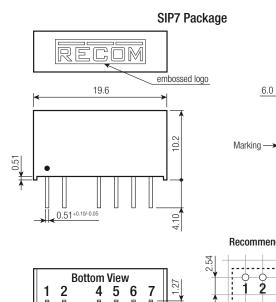
RU/RUM Series

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

DIMENSION AND PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
	Case	non-conductive black plastic (UL94 V-1)	
Material	potting	epoxy, (UL94 V-0)	
	PCB	FR4, (UL94 V-1)	
	RU	19.65 x 7.0 x 10.2mm	
Package Dimension (LxWxH)	RUM	16.55 x 6.0 x 7.7mm	
Package Weight		2.7g typ.	

Dimension Drawing (mm)

RU

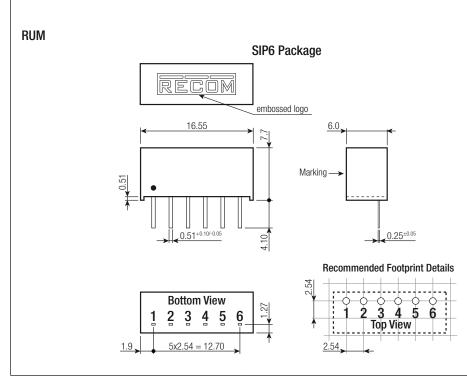


<u></u>
0.25
Recommended Footprint Details
1 2 4 5 6 7 Top View
2.54

Pinning information

3	
Pin #	Single
1	+Vin
2	-Vin
4	+Vout 1
5	-Vout 1
6	+Vout 2
7	-Vout 2

Tolerance: xx.x= ± 0.5 mm xx.xx= ± 0.25 mm



6x2.54= 15.24

2.0

Pinning information

Pin #	Single	
1	+Vin	
2	-Vin	
3	+Vout 1	
4	-Vout 1	
5	+Vout 2	
6	-Vout 2	

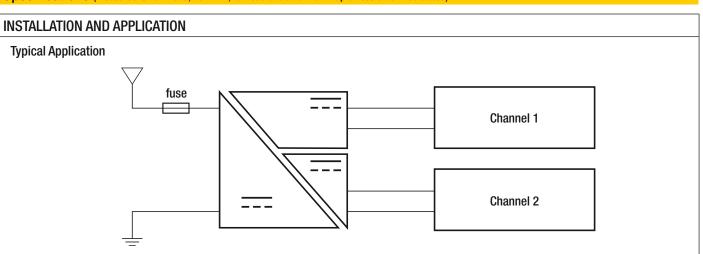
Tolerance: xx.x= ± 0.5 mm xx.xx= ± 0.25 mm

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RECOM

RU/RUM Series

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)



PACKAGING INFORMATION				
Parameter	Туре		Value	
Packaging Dimension (LxWxH)	t	ube	520.0 x 16.0 x 9.0mm	
Packaging Quantity	tube	RU RUM	25pcs 30pcs	
Storage Temperature Range			-55°C to + 125°C	
Storage Humidity			95% RH max.	

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 is an 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.

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