Features

- 2W dual output converter
- Industry standard SIP7 packages
- Power sharing on outputs
- Optional continuous short circuit protection

Unregulated Converters

- 1kVDC and 2kVDC basic isolation
 UL94 V-0 package material
- Efficiency up to 87%

Description

The RD series have been specifically designed for applications where dual power rails need to be created from a single rail supply and a low cost solution is required. With efficiencies up to 87%, the full output power is available over the operating temperature range -40° C to $+85^{\circ}$ C and the converters can be used in ambient temperatures of up to 100°C with derating. The wide selection of industry standard input voltage and output voltage options plus an input to output isolation of 1kVDC or 2kVDC makes these converters suitable for many industrial applications.

Selection Guid	le				
Part Number	nom. Input Voltage	Output Voltage	Output Current	Efficiency typ. ⁽¹⁾	max. Capacitive Load ⁽²⁾
	[VDC]	[VDC]	[mA]	[%]	[μF]
RD-xx05D (3,4)	5, 12, 24	±5	±200	75-86	±470
RD-xx12D (3,4)	5, 12, 24	±12	±84	81-85	±330
RD-xx15D (3,4)	5, 12, 24	±15	±66	82-86	±330
RD-xx24D (3,4)	5, 12, 24	±24	±42	82-86	±100

Notes:

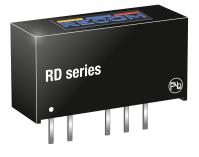
Note1: Efficiency is tested at nominal input and full load at +25°C ambient

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



RD







EN60950-1 certified IEC60950-1 certified

Model Numbering



Notes:

Note3: standard part is without Continuous Short Circuit Protection add suffix "/P" for Continuous Short Circuit Protection Note4: add suffix "/H" for 2kVDC Isolation or add suffix "/HP" for Continuous Short Circuit Protection and 2kVDC Isolation

Ordering Examples:

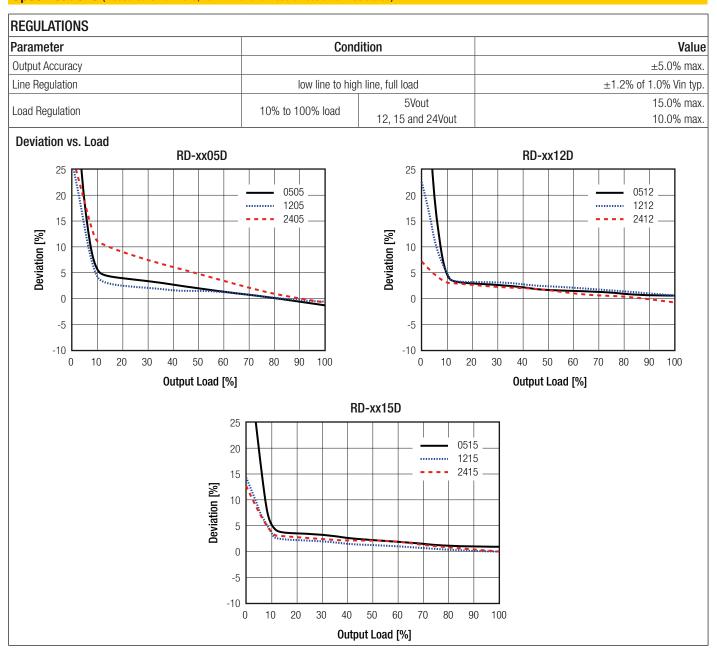
RD-123.3D/P: 12V Input Voltage, ±3.3V Output Voltage, Dual Output with continuous short circuit protection RD-0509D/HP: 5V Input Voltage, ±9V Output Voltage, Dual Output with 2kVDC Isolation and continuous short circuit protection

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

BASIC CHARACTERISTICS Parameter Condition Min. Тур. Max. Input Voltage Range ±10% Minimum Load (5) 0% Internal Operating Frequency 20kHz 50kHz 85kHz Output Ripple and Noise 20MHz BW 150mVp-p Notes: Note5: Operation below 10% load will not harm the converter, but specifications may not be met Efficiency vs. Load RD-xx05D RD-xx12D Efficiency [%] Efficiency [%] ----Output Load [%] Output Load [%] RD-xx15D Efficiency [%] Output Load [%]

RD Series

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

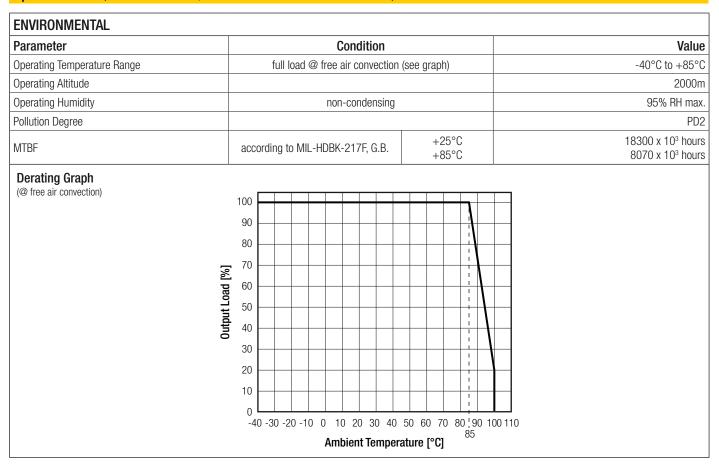


Parameter		Туре	Value	
Chart Circuit Drotaction (CCD)		without si	1 second	
Short Circuit Protection (SCP)		with suffix	"/P"	continuous
Isolation Voltage ⁽⁶⁾		without suffix	tested for 1 second	1kVDC
	I/P to O/P		rated for 1 minute	500VAC/60Hz
	I/P 10 0/P	with suffix	tested for 1 second	2kVDC
		"/H"	rated for 1 minute	1kVAC/60Hz
Isolation Resistance				$10G\Omega$ min.
Isolation Capacitance				40pF min. /115pF max.
Insulation Grade				basic
Notes:			·	

Note7: Refer to local wiring regulations if input over-current protection is also required. Recommended fuse: T2A slow blow type

RD Series

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



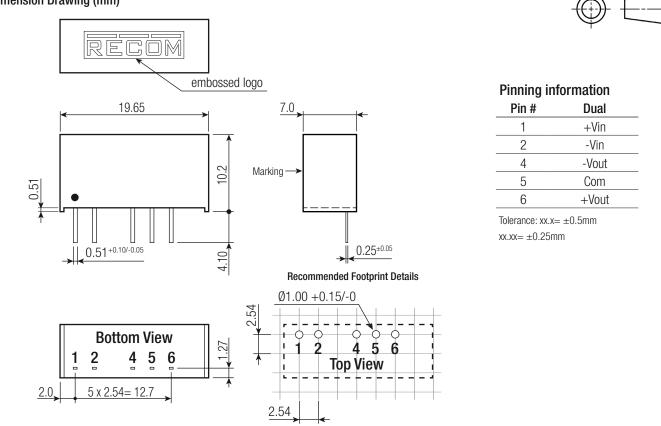
SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	1602031	IEC60950-1:2005, 2nd Edition + A2:2013 EN60950-1:2006 + A2:2013
EAC	RU-AT.49.09571	TP TC 004/2011
RoHs 2+		RoHS-2011/65/EU + AM-2015/863

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-0)
Dimension (LxWxH)		19.65x 7.05 x 10.2mm
Weight		2.8g typ.

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

RD Series

Dimension Drawing (mm)



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

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