Features Regulated Converters	 DIP24 Low Profile Package Dual Ouputs from a Single Supply 2:1 Wide Range Voltage Input 3kVDC Isolation UL94V-O Package Material Continuous Short Circuit Protection Low profile 7mm Height Approved for Medical Applications
	• Efficiency to 85%
Description The BW D se	ries with 2:1 input voltage ranges and maximum height of 7.0 mm has

Description

The RW_D series with 2:1 input voltage ranges and maximum height of 7,0 mm has been designed for industrial automation and medical markets where a dual output rail needs to be generated from a single rail source. The converters supply the full 3 Watts without additional heat-sinks over the temperature range -40°C to +85°C.

Selection Guide

Part Number DIP24 Miniature	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency %	Max Capacitive Load ⁽¹⁾
RW-0505D	4.5 - 9	±5	±300	71	±2200µF
RW-0509D	4.5 - 9	±9	±167	73	±1000µF
RW-0512D	4.5 – 9	±12	±125	74	±1000µF
RW-0515D	4.5 – 9	±15	±100	75	±1000µF
RW-1205D	9-18	±5	±300	76	±2200µF
RW-1209D	9-18	±9	±167	80	±1000µF
RW-1212D	9-18	±12	±125	83	±1000µF
RW-1215D	9-18	±15	±100	83	±1000µF
RW-2405D	18 – 36	±5	±300	78	±2200µF
RW-2409D	18 – 36	±9	±167	81	±1000µF
RW-2412D	18 – 36	±12	±125	85	±1000µF
RW-2415D	18 - 36	±15	±100	85	±1000µF
RW-4805D	36 - 72	±5	±300	78	±2200µF
RW-4809D	36 - 72	±9	±167	82	±1000µF
RW-4812D	36 - 72	±12	±125	84	±1000µF
RW-4815D	36 - 72	±15	±100	84	±1000µF

Specifications (Core Operating Area)

Input Voltage Range		2:1
Output Voltage Accuracy		±1% typ. / ±2% max.
Line Voltage Regulation		0.1% typ. / 0.2% max.
Load Voltage Regulation (10% to 100% full I	load)	0.2% typ. / 0.5% max.
Minimum Load		10% (2)
Output Ripple and Noise (20MHz limited)		50mVp-p max.
Operating Frequency		100KHz min. / 150kHz typ.
Efficiency at Full Load		See above
No Load Power Consumption		250mW max.
Isolation Voltage	(tested for 1 second)	3000VDC
	(rated for 1 minute*)	1500VAC / 60Hz
Isolation Capacitance		20pF min. / 40pF typ. / 60pF max.
Isolation Resistance		1 G Ω min.
Short Circuit Protection		Continuous
Operating Temperature Range (free air convection)		-40°C to +85°C (see Graph)
		continued on next page

ECONOLINE

DC/DC-Converter with 3 year Warranty



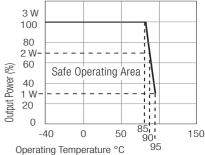
3 Watt DIP24 Low Profile Regulated Dual Output



RW-D

Derating-Graph (Ambient Temperature)

- • • •



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

Refer to Application Notes

ECONOLINE DC/DC-Converter

Specifications (Core Operating Area)

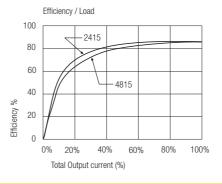
RW-xxxD Series

specifications (00	re Operating Area)			
Storage Temperature F	Range			-55°C to +125°C
Case Material				Non-Conductive Black Plastic
Potting Material				Epoxy (UL94V-0)
Relative Humidity				95% RH
Package Weight				7.7g
Packing Quantity				15pcs per Tube
MTBF (+25°C) Detailed Information see		using N	/IL-HDBK 217F	1636 x 10 ³ hours
7			/IL-HDBK 217F	303 x 10 ³ hours
Certifications				
EN General Safety	Report: SPCLVD1212007		EN60950-1:2006 + A11:2009	9+A1:2010+A12:2011
EN Medical Safety	Report: MDD1205098-3 + RM12)5098-3	IEC/EN 60601-1 3rd Edition	Medical Report + ISO14971 Risk Assessment
Notes				
Note 1:	Maximum capacitive load is define	d as the cape	acitive load that will allow start up in	n under 1 second without damage to the converter
Note 2:	The RW-D series require a minimu	im of 10% loa	ading on the output to maintain spec	cified regulation. Operating under un-load conditior

will not damage these devices, however they may not meet all listed specifications.

Typical Performance

RW-xx15D

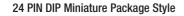


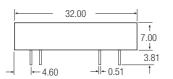
Package Style and Pinning (mm)

0023

23 22

00





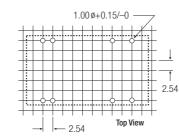
0 0 9 11

16 14

Bottom View

	17.50	
Ĭ	15.24	→Ï

Recommended Footprint Details



RECOM RW-1205D
Pin Connections

Pin	Dual	
2&3	-Vin	
9 & 16	Com	
11	-Vout	
14	+Vout	
22 & 23	+Vin	
NC = No Connection		

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

The product information and specifications are subject to change without prior notice. All products are designed for non-safety critical commercial and industrial applications. The Buyer agrees to implement safeguards that anticipate the consequences of any failures that might cause harm, loss of life and/or damage property.

REV: 0/2014