

Features

Regulated Converters

- DIP24 Miniature Package
- 2:1 Wide Range Voltage Input
- 1kVDC Isolation
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- Less than 7mm Height
- Cost Effective
- Short Lead Time
- No External Capacitor needed
- Efficiency to 88%

ECONOLINE

DC/DC-Converter

RW Series

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
DIP24 Miniature			
RW-053.3S	4.5 – 9	3.3	650
RW-0505S	4.5 – 9	5	600
RW-0509S	4.5 – 9	9	333
RW-0512S	4.5 – 9	12	250
RW-0515S	4.5 – 9	15	200
RW-123.3S	9 – 18	3.3	650
RW-1205S	9 – 18	5	600
RW-1209S	9 – 18	9	333
RW-1212S	9 – 18	12	250
RW-1215S	9 – 18	15	200
RW-243.3S	18 – 36	3.3	650
RW-2405S	18 – 36	5	600
RW-2409S	18 – 36	9	333
RW-2412S	18 – 36	12	250
RW-2415S	18 – 36	15	200
RW-483.3S	36 – 72	3.3	650
RW-4805S	36 – 72	5	600
RW-4809S	36 – 72	9	333
RW-4812S	36 – 72	12	250
RW-4815S	36 – 72	15	200

**3 Watt
DIP24/SMD low
Profile package
Single Output**



Description

The RW series with 2:1 input voltage ranges and max. height of 7,0 mm has been designed for the telecom - and industrial automation markets. They are particularly aimed at applications where pcb-space is at a premium, still requiring industrial standard pinning. Also an optional SMD pinning is available. The converters supply the full 3 Watts without additional heat-sinks over the temperature range -40°C to +80°C.

Specifications (Core Operating Area)

Input Voltage Range	2:1
Output Voltage Accuracy	±2% max.
Line Voltage Regulation	±0.2% typ.
Load Voltage Regulation (10% to 100% full load)	±0.5% max.
Output Ripple and Noise (20MHz limited)	70mVp-p max.
Operating Frequency	85kHz min. / 100kHz typ.
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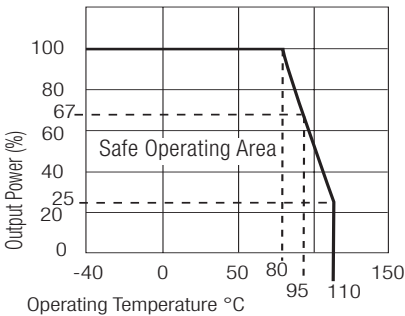
ECONOLINE
DC/DC-Converter

RW
Series

Specifications (Core Operating Area)

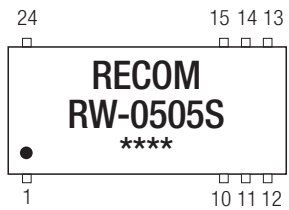
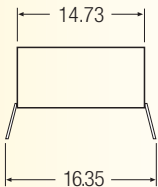
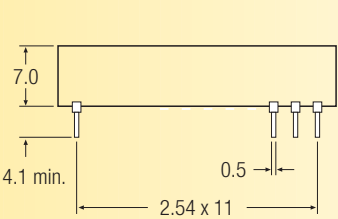
Efficiency at Full Load		65% min.
Isolation Voltage	(tested for 1 second)	1.000VDC min.
Rated Working Voltage	(long term isolation)	see Application Notes
Isolation Capacitance		40pF min. / 60pF max.
Isolation Resistance		1 GΩ min.
Short Circuit Protection		Continuous
Operating Temperature Range (free air convection)		-40°C to +80°C (see Graph)
Storage Temperature Range		-55°C to +125°C
Relative Humidity	MSL Level 1	95% RH
Package Weight		7g
MTBF (+25°C)	} Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F 1034 x 10 ³ hours
(+80°C)		using MIL-HDBK 217F 186 x 10 ³ hours

Derating-Graph
(Ambient Temperature)

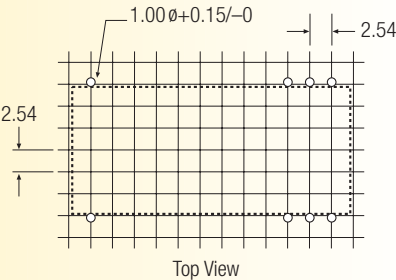
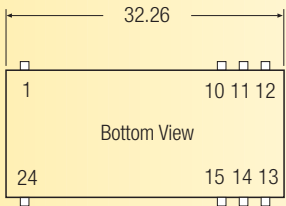


Package Style and Pinning (mm)

24 PIN DIP Miniature Package Style



Recommended Footprint Details

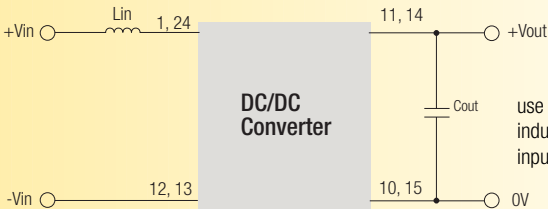


Pin Connections

Pin #	Single
1 & 24	+Vin
10 & 15	-Vout
11 & 14	+Vout
12 & 13	-Vin

NC = No Connection
XX.X ± 0.5 mm
XX.XX ± 0.25 mm

L _{in}	RW- types	4.7uH ~ 100uH
C _{out}	RW- types	22uF ~ 100uF/25V



use low ESR capacitor Cout and input inductor Lin to reduce output ripple and input inrush current.

RW-types

