

Features

Regulated Converters

- 7.5W DIP Package
- Input / Output 2KVDC Isolation min.
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- Auto-Restarting
- Wide Input 2:1
- Highest Power Density in a DIP24 Package
- 5 Side Shielded Metal Case with Insulated Baseplate
- Full SMD design
- 100% Burned In
- Efficiency to 86%

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
DIP24	(VDC)	(VDC)	(mA)	(%)
REC7.5-xx3.3SRW/AM	18-36, 36-72	3.3	1.800	78
REC7.5-xx05SRW/AM	18-36, 36-72	5	1.500	81-82
REC7.5-xx09SRW/AM	18-36, 36-72	9	833	83-84
REC7.5-xx12SRW/AM	18-36, 36-72	12	625	84-85
REC7.5-xx15SRW/AM	18-36, 36-72	15	500	85-86
REC7.5-xx05DRW/AM	18-36, 36-72	±5	±750	81-82
REC7.5-xx09DRW/AM	18-36, 36-72	±9	±417	83-84
REC7.5-xx12DRW/AM	18-36, 36-72	±12	±312	84-85
REC7.5-xx15DRW/AM	18-36, 36-72	±15	±250	85-86

2:1

xx = 18-36Vin = 24 xx = 36-72Vin = 48

Description

The REC7.5-xxxxSRW/DRW-series a wide input voltage range of DC/DC converters offering single and dual regulated outputs. 24-pin DIP and high efficiency allows an operating temperature of -40°C to +71°C.

Specifications (Core Operating Area)

Input Voltage Range	2:1	
Output Voltage Accuracy	±2% max.	
Line Voltage Regulation	0.4% max.	
Load Voltage Regulation (25% to 100% full load)	0.8% max.	
Output Ripple and Noise (at 20MHz BW)	3.3V output type	100mVp-p max.
	5, 9, 12 and 15V output types	50mVp-p max.
Operating Frequency	120kHz typ.	
Efficiency at Full Load	see Selection Guide	
Isolation Voltage	(tested for 1 second)	2.000VDC min.
Rated Working Voltage	(long term isolation)	see Application Notes
Isolation Capacitance	50pFtyp.	
Isolation Resistance	1 GΩ min.	
Short Circuit Protection	Continuous, Auto Restart	
Operating Temperature Range (free air convection)	-40°C to +71°C (see Graph)	
Storage Temperature Range	-50°C to +125°C	
Relative Humidity	MSL Level 1	95% RH
Case Material	Nickel-Coated Metal with Non-Conductive Base	
Package Weight	14 g	
MTBF (+25°C)	Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F
		800 x 10 ³ hours

ECONOLINE

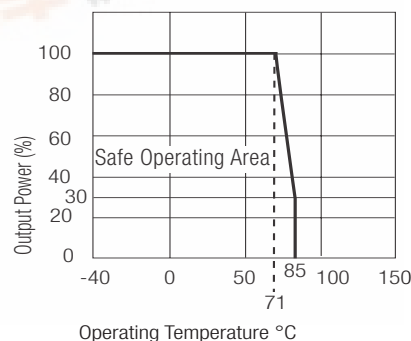
DC/DC-Converter

REC7.5-S_DRW/AM Series

7.5 Watt DIP24 Single Dual Output

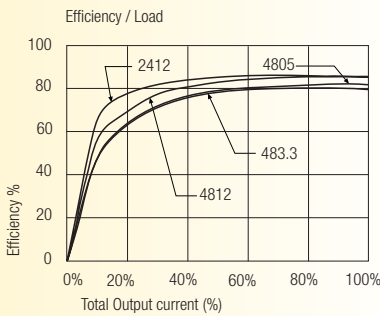


Derating-Graph (Ambient Temperature)



Typical Characteristics

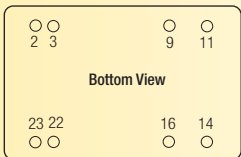
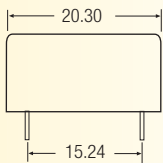
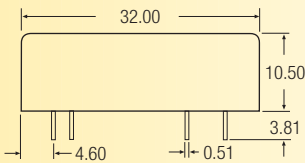
Single



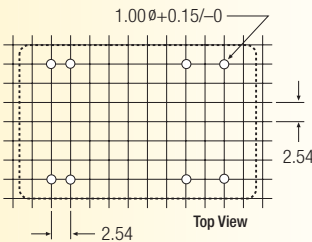
Package Style and Pinning (mm) Wide Input 2:1



24 PIN DIP Package



Recommended Footprint Details



Pin Connections

Pin #	Single	Dual
2	-Vin	-Vin
3	-Vin	-Vin
9	NC	Com
11	NC	-Vout
14	+Vout	+Vout
16	- Vout	Com
22	+Vin	+Vin
23	+Vin	+Vin

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