

Features

Regulated Converters

- 3W DIP Package
- 1kVDC Isolation
- Regulated Output
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- Internal SMD design
- 100% Burned In
- Efficiency to 75%

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Max Cap. Load (μ F)	Output Current (mA)
REC3-xx3.3SR/H1	5, 12, 24, 48	3.3	2200	800
REC3-xx05SR/H1	5, 12, 24, 48	5	1000	600
REC3-xx09SR/H1	5, 12, 24, 48	9	470	333
REC3-xx12SR/H1	5, 12, 24, 48	12	220	250
REC3-xx15SR/H1	5, 12, 24, 48	15	120	200
REC3-xx05DR/H1	5, 12, 24, 48	\pm 5	\pm 470	\pm 300
REC3-xx09DR/H1	5, 12, 24, 48	\pm 9	\pm 220	\pm 167
REC3-xx12DR/H1	5, 12, 24, 48	\pm 12	\pm 100	\pm 125
REC3-xx15DR/H1	5, 12, 24, 48	\pm 15	\pm 68	\pm 100

xx = Input Voltage

* add suffix "/SMD" for SMD package, e.g. REC3-0505SR/H1/SMD

* add suffix "/M" for Metal Case, e.g. REC3-0505SR/H1/M

Specifications (Core Operating Area)

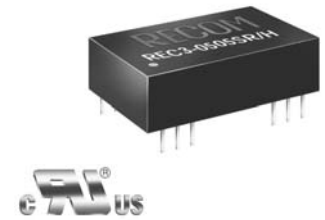
Input Voltage Range			\pm 15%
Output Voltage Accuracy			\pm 3% typ.
Line Voltage Regulation			\pm 0.5% max
Load Voltage Regulation (10% to 100% full load)			\pm 1% max.
Output Ripple and Noise (at 20MHz BW)			100mVp-p max.
Operating Frequency			75kHz min.
Efficiency at Full Load			65% min.
No Load Power Consumption			300mW max.
Isolation Voltage	(tested for 1 second)	1000VDC min.	
Rated Working Voltage	(long term isolation)	see Application Notes	
Isolation Capacitance			30pF typ.
Isolation Resistance			1 G Ω 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			95% RH
Thermal Impedance	Natural convection	20°C/W for metal case	
Package Weight			12g
MTBF (+25°C)	} Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F	950 x 10 ³ hours
(+80°C)		using MIL-HDBK 217F	145 x 10 ³ hours

ECONOLINE

DC/DC-Converter

REC3-S_DR/H1 Series

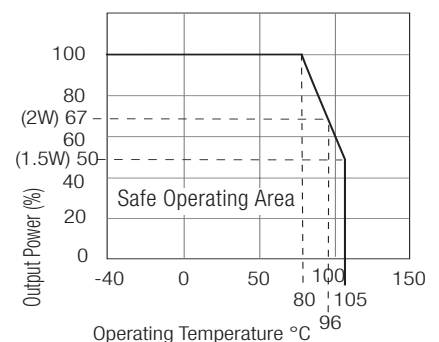
3 Watt DIP24 & SMD Single & Dual Output



UL-60950-1 Certified

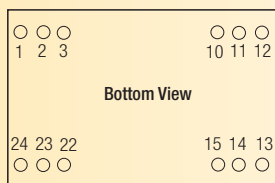
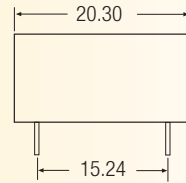
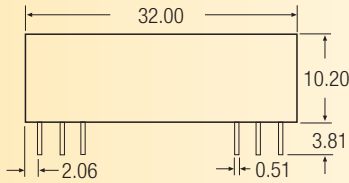


Derating-Graph (Ambient Temperature)

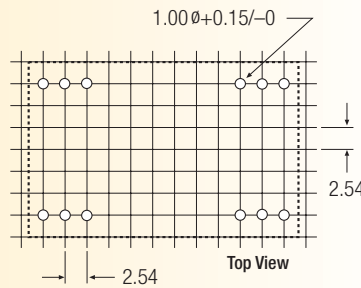


Package Style and Pinning (mm)

24 PIN DIP Package



Recommended Footprint Details

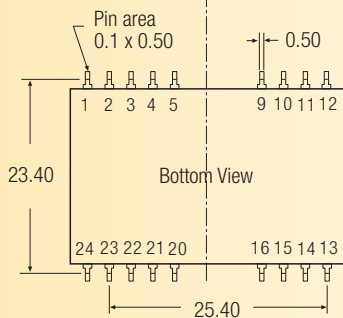
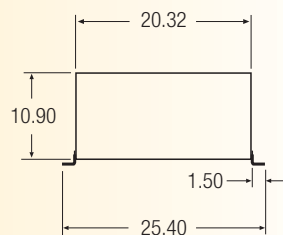
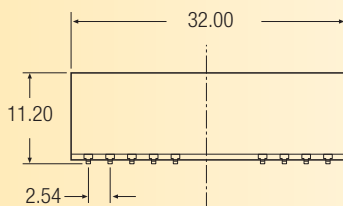


Pin Connections

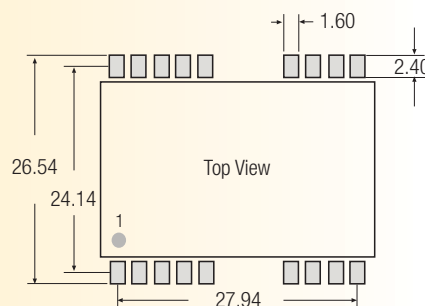
Pin #	Single	Dual
1	+Vin	+Vin
2	No Pin	-Vout
3	No Pin	Com
10	-Vout	Com
11	+Vout	+Vout
12	-Vin	-Vin
13	-Vin	-Vin
14	+Vout	+Vout
15	-Vout	Com
22	No Pin	Com
23	No Pin	-Vout
24	+Vin	+Vin

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

24 PIN DIP SMD Package



Recommended Footprint Details



XX.X ± 0.5 mm
XX.XX ± 0.25 mm

All unused pins are NC (No Connection). SMD pin connections follow standard package pinning.