

Features

Unregulated Converters

- Cost Effective
- 1kVDC & 2kVDC Isolation
- Custom Solutions Available
- No Extern. Components Required
- UL94V-0 Package Material
- Efficiency to 85%

ECONOLINE DC/DC-Converter

REZ Series

Selection Guide

Part Number	Input Voltage (2kV)	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
REZ-xx3.3S	(H)	5, 9, 12, 15, 24	3.3	606	70-75
REZ-xx05S	(H)	5, 9, 12, 15, 24	5	400	80-85
REZ-xx09S	(H)	5, 9, 12, 15, 24	9	222	78-84
REZ-xx12S	(H)	5, 9, 12, 15, 24	12	168	80-85
REZ-xx15S	(H)	5, 9, 12, 15, 24	15	132	82-85
REZ-xx24S	(H)	5, 9, 12, 15, 24	24	83	80-85

xx = Input Voltage

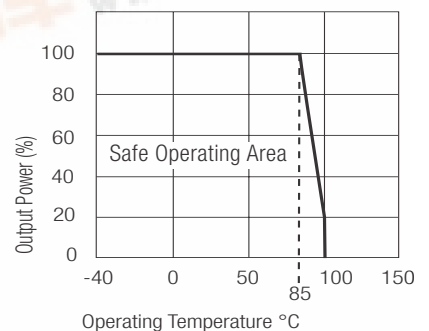
2 Watt SIP7 Single Output



Specifications (Core Operating Area)

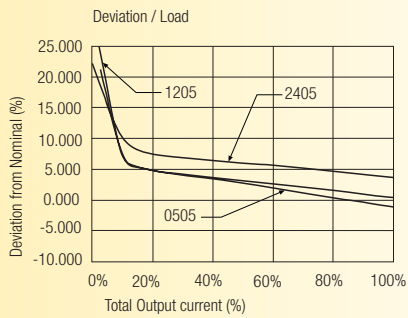
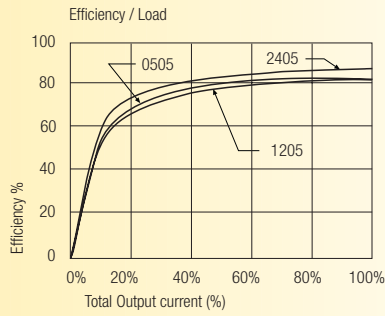
Input Voltage Range		±10%
Output Voltage Accuracy		±5%
Line Voltage Regulation		1.2%/1% of Vin max.
Load Voltage Regulation (10% to 100% full load)	3.3V output types 5V output type 9V, 12V, 15V, 24V output types	20% max. 15% max. 10% max.
Output Ripple and Noise (20MHz limited)		150mVp-p max.
Operating Frequency		35kHz min. / 50kHz typ. / 85kHz max.
Efficiency at Full Load		70% min. / 80% typ.
No Load Power Consumption		134mW min. / 202mW typ. / 260mW max.
Isolation Voltage (tested for 1 second)		1.000VDC min.
Rated Working Voltage (long term isolation)		see Application Notes
Isolation Voltage (tested for 1 second)	H-Suffix	2.000VDC min.
Rated Working Voltage (long term isolation)	H-Suffix	see Application Notes
Isolation Capacitance		40pF min. / 115pF max.
Isolation Resistance		10 GΩ min.
Short Circuit Protection		1 Second
Operating Temperature Range (free air convection)		-40°C to +85°C (see Graph)
Storage Temperature Range		-55°C to +125°C
Relative Humidity	MSL Level 1	95% RH
Package Weight		2.7g
MTBF: +25°C	Detailed Information see	using MIL-HDBK 217F
MTBF: +85°C	Application Notes chapter "MTBF"	using MIL-HDBK 217F
		915 x 10 ³ hours
		170 x 10 ³ hours

Derating-Graph (Ambient Temperature)

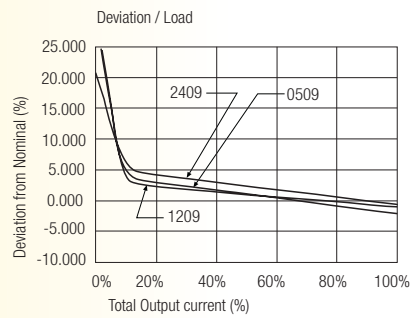
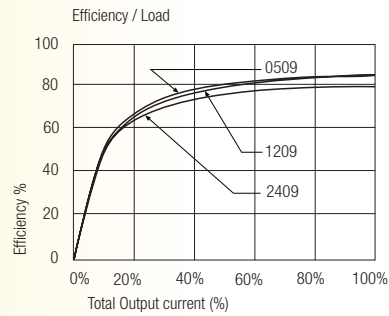


Typical Characteristics

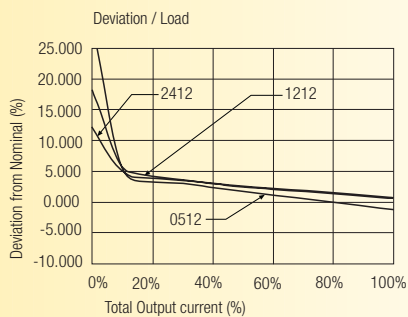
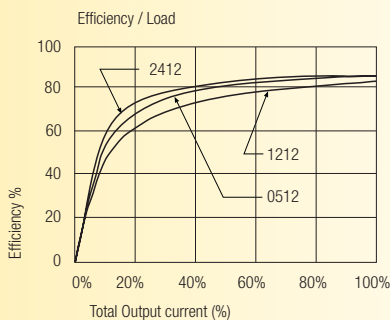
REZ-xx05S



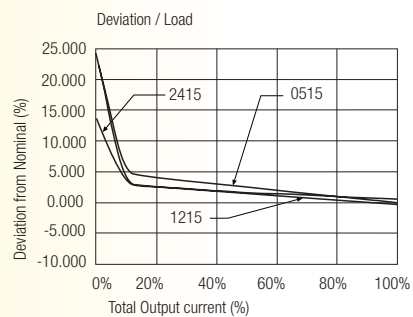
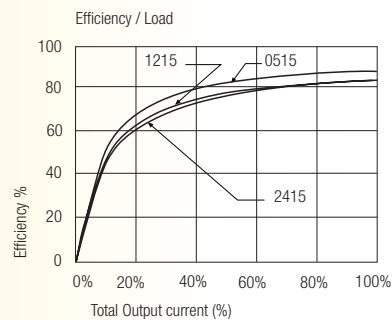
REZ-xx09S



REZ-xx12S

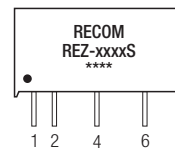
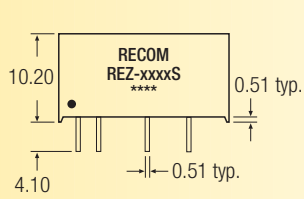


REZ-xx15S

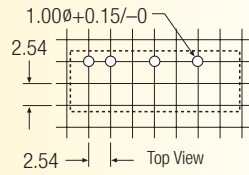
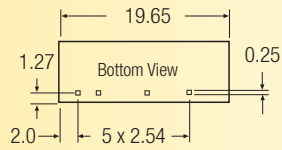


Package Style and Pinning (mm)

7 PIN SIP Package



Recommended Footprint Details



Pin Connections

Pin #	Single
1	+Vin
2	-Vin
4	-Vout
6	+Vout
XX.X ± 0.5 mm	
XX.XX ± 0.25 mm	