

Order code	Manufacturer code	Description
84-2530	n/a	RI-0505S 2W SGL OUTPUT CONVERTER SIL RC

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The enclosed information is believed to be correct, Information may change without notice due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 20/02/2007

Features Unregulated Converters

- Custom Solutions Available
- 1kVDC Isolation
- No External Components Required
- Optional Continuous Short Circuit Protected
- UL94V-0 Package Material
- No Heatsink Required
- Efficiency to 87%

ECONOLINE
DC/DC-Converter

RI Series

2 Watt SIP4 Single Output

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
SIP4	(VDC)	(VDC)	(mA)	(%)
RI-xx3.3S	5, 9, 12, 15, 24	3.3	606	70-75
RI-xx05S	5, 9, 12, 15, 24	5	400	78-83
RI-xx07S	5, 9, 12, 15, 24	7	285	78-83
RI-xx09S	5, 9, 12, 15, 24	9	222	78-83
RI-xx12S	5, 9, 12, 15, 24	12	167	80-85
RI-xx15S	5, 9, 12, 15, 24	15	133	80-85
RI-xx24S	5, 9, 12, 15, 24	24	83	80-87

xx = Input Voltage

* add Suffix "P" for Continuous Short Circuit Protection, e.g. RI-0505S/P

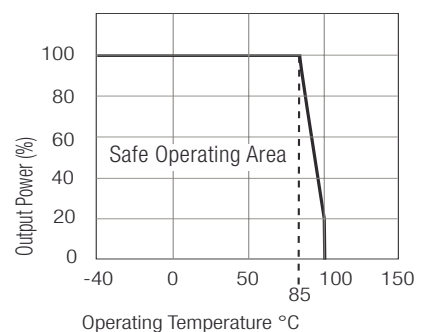


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Specifications (Core Operating Area)

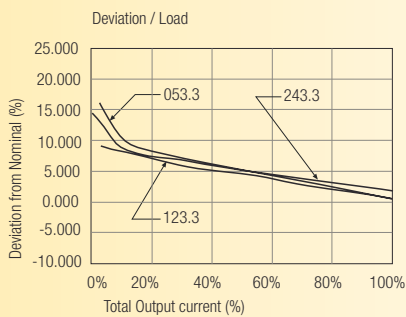
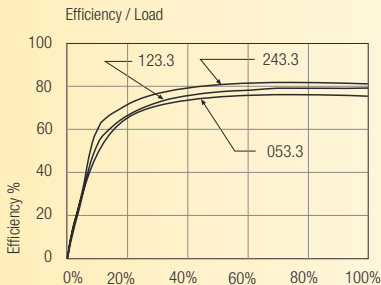
Input Voltage Range		±10%	
Output Voltage Accuracy		±5%	
Line Voltage Regulation		1.2%/1% of Vin typ.	
Load Voltage Regulation (10% to 100% full load)	3.3V output types 5V, output type 9V, 12V, 15V, 24V output types	20% max. 15% max. 10% max.	
Output Ripple and Noise (20MHz limited)		200mVp-p max.	
Operating Frequency		35kHz min. / 50kHz typ. / 85kHz max.	
Efficiency at Full Load		70% min. / 80% typ.	
No Load Power Consumption		142mW min. / 185mW typ. / 252mW max.	
Isolation Voltage	(tested for 1 second)	1000VDC min.	
Rated Working Voltage	(long term isolation)	see Application Notes	
Isolation Capacitance		30pF min. / 85pF max.	
Isolation Resistance		10 GΩ min.	
Short Circuit Protection		1 Second	
P-Suffix		Continuous	
Operating Temperature Range (free air convection)		-40°C to +85°C (see Graph)	
Storage Temperature Range		-55°C to +125°C	
Relative Humidity		95% RH	
Package Weight		1.4g	
MTBF (+25°C)	} Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F	845 x 10 ³ hours
(+85°C)		using MIL-HDBK 217F	160 x 10 ³ hours

Derating-Graph (Ambient Temperature)

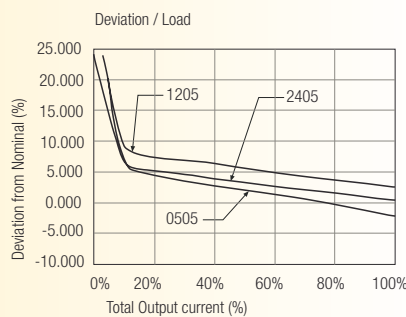
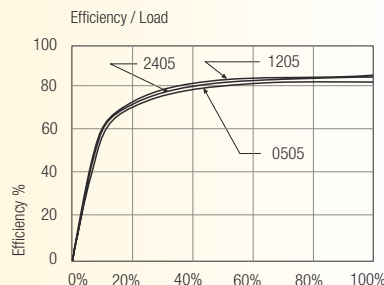


Typical Characteristics

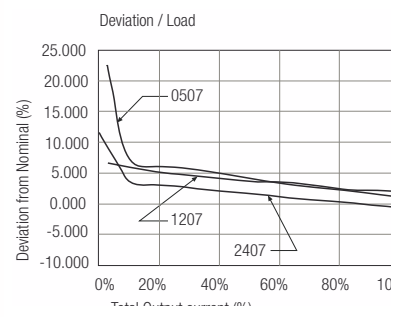
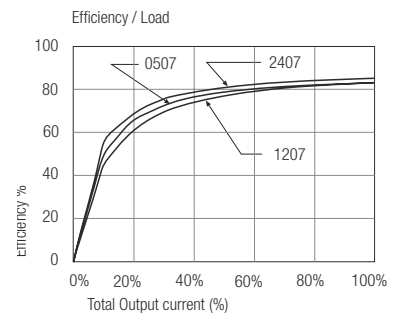
RI-xx3.3S



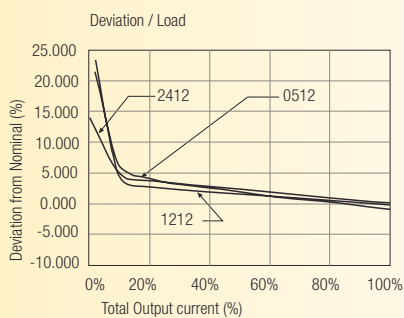
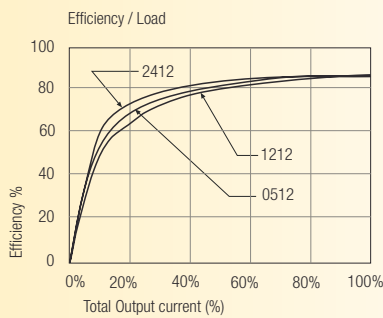
RI-xx05S



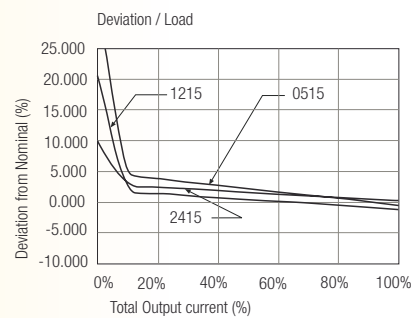
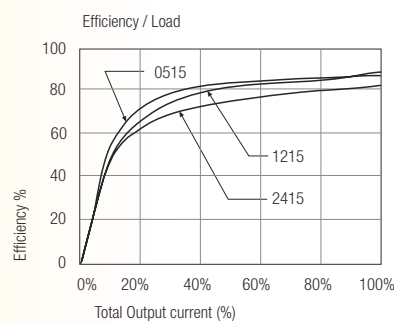
RI-xx07S



RI-xx12S



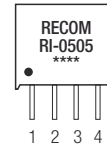
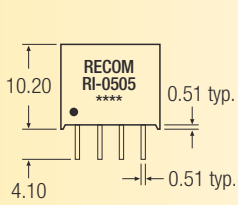
RI-xx15S



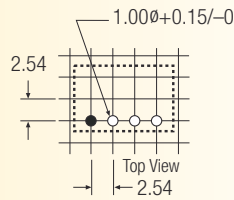
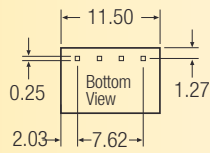
Package Style and Pinning (mm)



4 PIN SIP Package



Recommended Footprint Details



Pin Connections

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