Features

Unregulated Converters

- 2W Single and Dual Outputs in DIP 14
- 3kVDC and 4kVDC Isolation
- Optional Continuous Short Circuit Protected
- Custom Solutions Available
- UL94V-0 Package Material
- Efficiency up to 85%

ECONOLINE

DC/DC-Converter

RJZ & RGZ Series

2 Watt DIP14 Single & Dual Output

EN-60950-1 Certified
EN-60601-1 Certified

Selection Guide

Part Number		Input Voltage	Output Voltage	Output Current	Efficiency
DIP 14	4kV	(VDC)	(VDC)	(mA)	(%)
RJZ-xx3.3S	(H)	3.3,5,9,12,15,24	3.3	606	70-75
RJZ-xx05S	(H)	3.3,5,9,12,15,24	5	400	78-85
RJZ-xx09S	(H)	3.3,5,9,12,15,24	9	222	78-84
RJZ-xx12S	(H)	3.3,5,9,12,15,24	12	166	80-85
RJZ-xx15S	(H)	3.3,5,9,12,15,24	15	133	82-85
RJZ-xx24S	(H)	3.3,5,9,12,15,24	24	83	80-85
RGZ-xx3.3D	(H)	3.3,5,9,12,15,24	±3.3	±303	75
RGZ-xx05D	(H)	3.3,5,9,12,15,24	±5	±200	75-82
RGZ-xx09D	(H)	3.3,5,9,12,15,24	±9	±111	75-80
RGZ-xx12D	(H)	3.3,5,9,12,15,24	±12	±84	78-82
RGZ-xx15D	(H)	3.3,5,9,12,15,24	±15	±66	80-84
RGZ-xx24D	(H)	3.3,5,9,12,15,24	±24	±42	82-84

xx = Input Voltage

* add Suffix "**P**" for Continuous Short Circuit Protection, e.g. RGZ-0524D/P, e.g. RGZ-0524D/HP, has 4kV Isolation and is Short Circuit Protected.

Specifications (Core Operating Area)

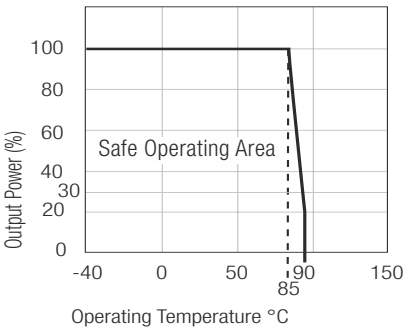
Input Voltage Range		±10%
Output Voltage Accuracy		±5%
Line Voltage Regulation		1.2%/1% of Vin typ.
Load Voltage Regulation (10% to 100% full load)	3.3V Types	±20% max.
	5V Types	±15% max.
	All other Types	±10% max.
Output Ripple and Noise (20MHz limited)		±150mVp-p max.
Temperature Coefficient		0.02%/°C max.
Operating Frequency		20kHz min./ 50kHz typ. / 90kHz max.
Efficiency at Full Load		70% min. / 80% typ.
Isolation Voltage	(tested for 1 second)	3000VDC min.
(H-Suffix)	(tested for 1 second)	4000VDC min.
Rated Working Voltage	(long term isolation)	see Application Notes
Isolation Capacitance		120pF max.
Isolation Resistance		15GΩ 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		2.8g

continued on next page

RECOM

Derating-Graph

(Ambient Temperature)

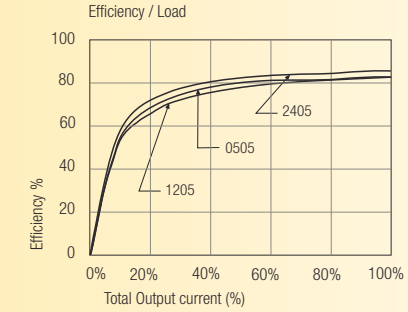


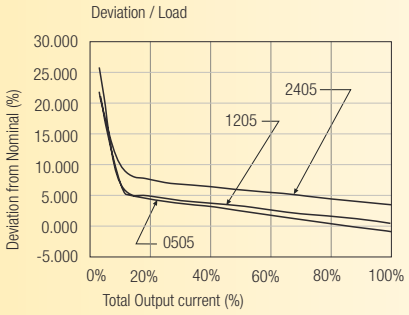
Typical Characteristics

MTBF (+25°C)	using MIL-HDBK 217F	RJZ types	893 x 10^3 hours
	Detailed Information see Application Notes chapter "MTBF"	RGZtypes	810 x 10^3 hours
(+85°C)	using MIL-HDBK 217F	RJZ types	208 x 10^3 hours
		RGZ types	151 x 10^3 hours

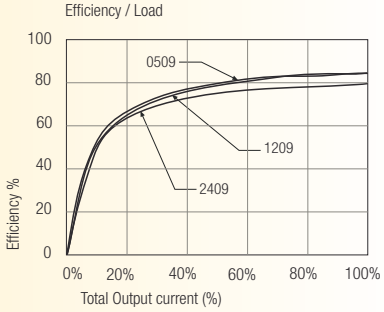
Typical Characteristics

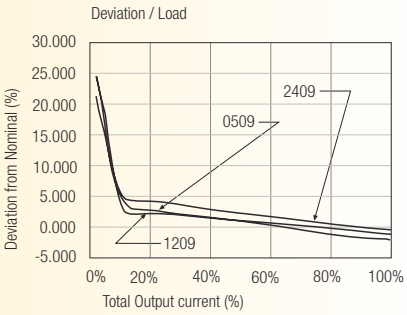
RJZ-xx05S



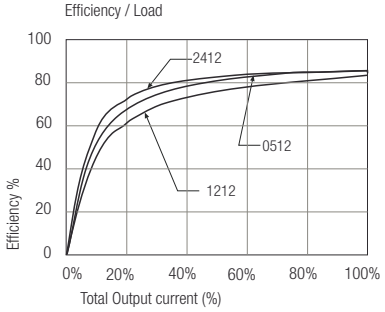


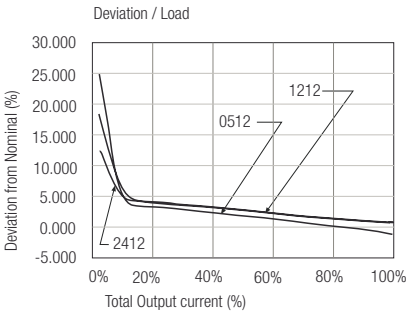
RJZ-xx09S



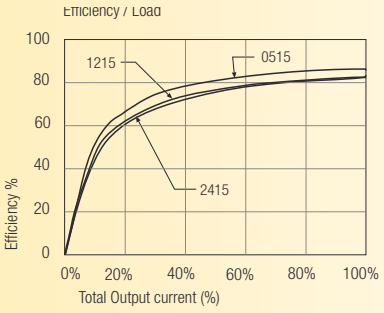


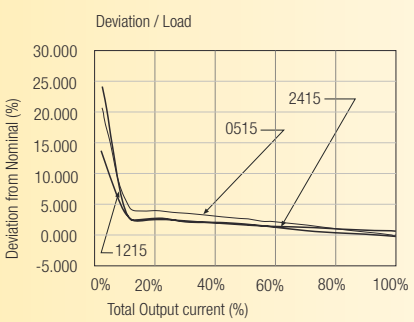
RJZ-xx12S



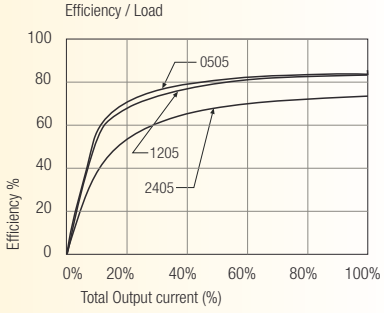


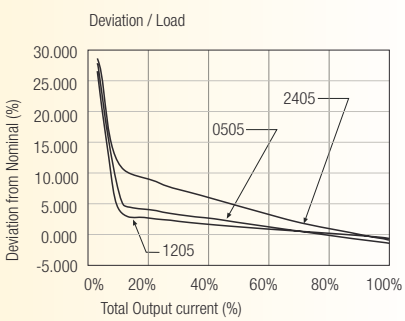
RJZ-xx15S



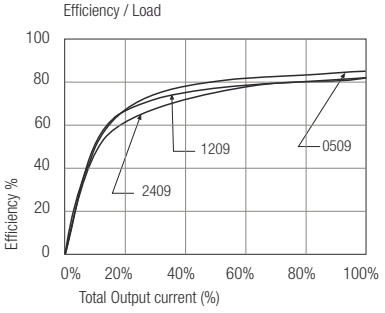


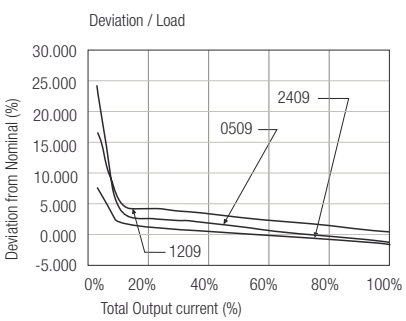
RGZ-xx05D





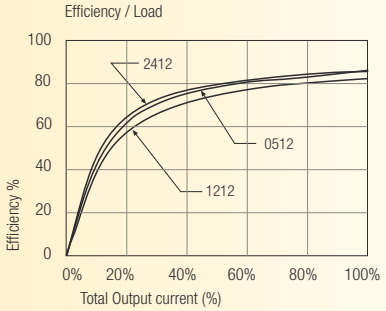
RGZ-xx09D

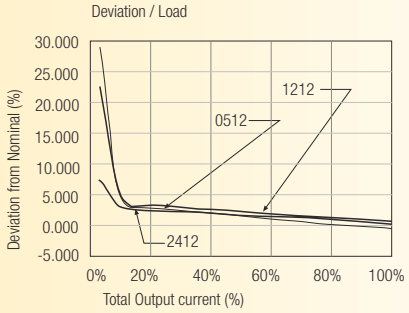




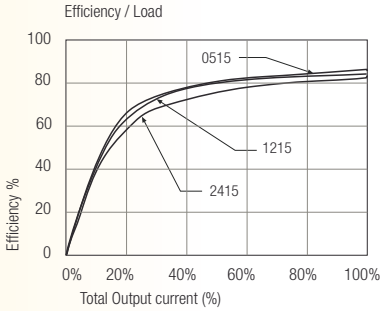
Typical Characteristics

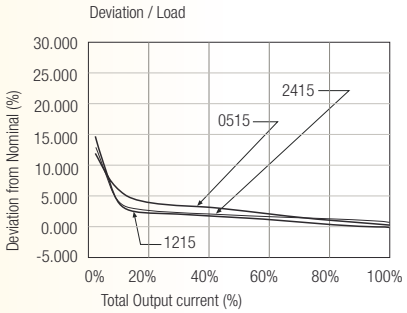
RGZ-xx12D



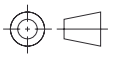


RGZ-xx15D

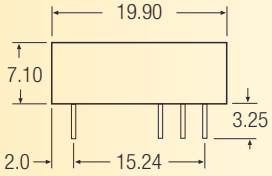


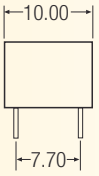


Package Style and Pinning (mm)

3rd angle projection 

14 PIN DIP Package

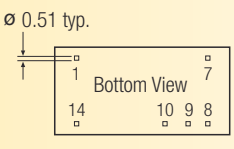


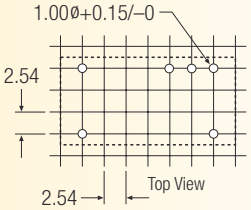


Single Output

Dual Output

Recommended Footprint Details





Pin Connections

Pin #	RJZ	RGZ
1	–Vin	–Vin
7	NC	NC
8	+Vout	+Vout
9	No Pin	Com
10	–Vout	–Vout
14	+Vin	+Vin

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

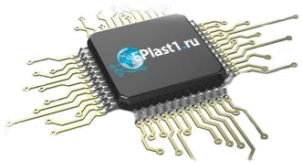
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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