ECONOLINE - DC/DC-Converter

RJ and RG Series, 1 Watt, DIP14, 3kV/4kV (Single & Dual Output)

RECOM

Features

- 3kVDC & 4kVDC Isolation
- Industry Standard Pinout
- Power Sharing on Dual Output
- Efficiency to 78%
- Custom Solutions Available
- UL94V-0 Package Material

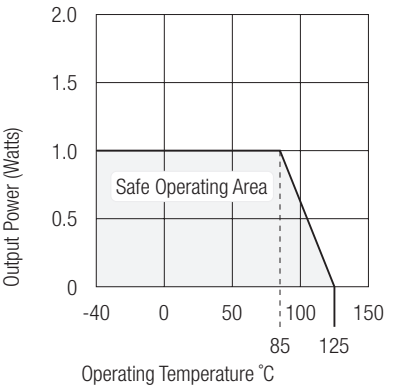


Selection Guide

Part Number DIP 14		Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
	4kV				
RJ-XX1.8S	(H)	1.8, 3.3, 5, 9, 12, 15, 24	1.8	555	70
RJ-XX3.3S	(H)	1.8, 3.3, 5, 9, 12, 15, 24	3.3	303	75
RJ-XX05S	(H)	1.8, 3.3, 5, 9, 12, 15, 24	5	200	70-78
RJ-XX09S	(H)	1.8, 3.3, 5, 9, 12, 15, 24	9	111	78-82
RJ-XX12S	(H)	1.8, 3.3, 5, 9, 12, 15, 24	12	84	78-82
RJ-XX15S	(H)	1.8, 3.3, 5, 9, 12, 15, 24	15	66	78-82
RJ-XX24S	(H)	1.8, 3.3, 5, 9, 12, 15, 24	24	42	74-83
RG-XX1.8D	(H)	1.8, 3.3, 5, 9, 12, 15, 24	±1.8	±278	70
RG-XX3.3D	(H)	1.8, 3.3, 5, 9, 12, 15, 24	±3.3	±152	70
RG-XX05D	(H)	1.8, 3.3, 5, 9, 12, 15, 24	±5	±100	70-78
RG-XX09D	(H)	1.8, 3.3, 5, 9, 12, 15, 24	±9	±56	75-80
RG-XX12D	(H)	1.8, 3.3, 5, 9, 12, 15, 24	±12	±42	78-84
RG-XX15D	(H)	1.8, 3.3, 5, 9, 12, 15, 24	±15	±33	80-84
RG-XX24D	(H)	1.8, 3.3, 5, 9, 12, 15, 24	±24	±21	80-84

Specifications (Core Operating Area) and Operating Temperature / Derating-Graph

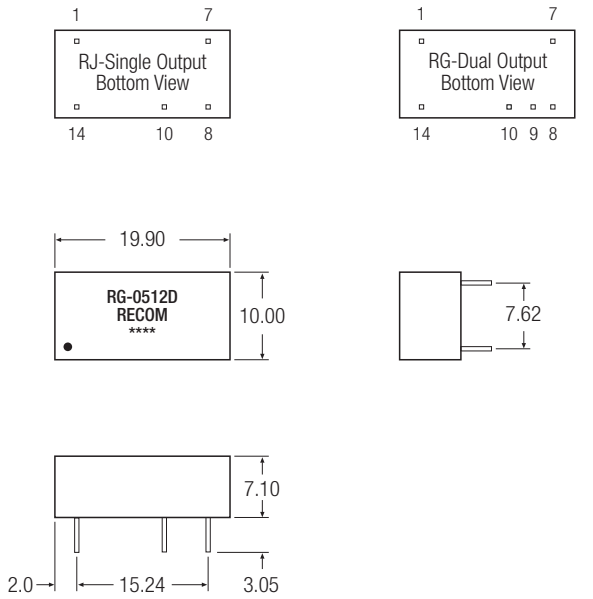
Input Voltage		±10%
Input Filter		Capacitor Type
Output Voltage Accuracy		±5%
Line Voltage Regulation		1.2%/1% V Input
Load Voltage Regulation (10% to 100% full load)	1.8V, 3.3V output types 5V output type 9V, 12V, 15V, 24V output types	20% max. 15% max. 10% max.
Ripple and Noise (20MHz limited)	Single output types Dual output types	100mVp-p max. ±75mVp-p max.
Efficiency at Full Load		70% min.
Isolation Voltage		3.000VDC min. (also available with 4.000VDC, Suffix 'H')
Isolation Resistance (Viso = 500VDC)		15 GΩ min.
Isolation Capacitance		20pF min./65pF max.
Short Circuit Protection		1 Second
Switching Frequency at Full Load		57kHz min. / 105kHz max.
Operating Temperature		–40°C to +85°C (see Graph)
Storage Temperature		-55°C to +125°C
Package Weight		2.5g



Package Style and Pinning (mm)

14 PIN DIP Package

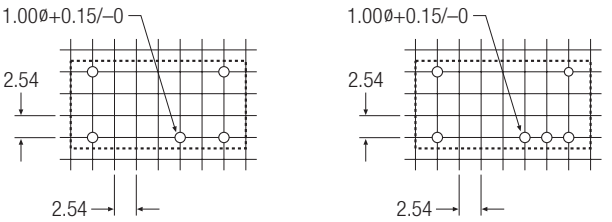
3rd angle projection



Pin Connections

Pin #	Single	Dual
1	–Vin	–Vin
7	NC	NC
8	+Vout	+Vout
9	No Pin	Com
10	–Vout	–Vout
14	+Vin	+Vin

Recommended Footprint Details



XX.X ± 0.5 mm
XX.XX ± 0.25 mm