

ECONOLINE - DC/DC-Converter

RA Series, 1 Watt, DIP14 (Single & Dual Output)

RECOM

Selection Guide

Part Number DIP 14	Input Voltage (VDC)		Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
	2kV	(H)			
RA-XX1.8S	1.8, 3.3, 5, 9, 12, 15, 24	(H)	1.8	555	70
RA-XX3.3S	1.8, 3.3, 5, 9, 12, 15, 24	(H)	3.3	303	70
RA-XX05S	1.8, 3.3, 5, 9, 12, 15, 24	(H)	5	200	70
RA-XX09S	1.8, 3.3, 5, 9, 12, 15, 24	(H)	9	111	75
RA-XX12S	1.8, 3.3, 5, 9, 12, 15, 24	(H)	12	84	78
RA-XX15S	1.8, 3.3, 5, 9, 12, 15, 24	(H)	15	66	80
RA-XX24S	1.8, 3.3, 5, 9, 12, 15, 24	(H)	24	42	80
RA-XX1.8D	1.8, 3.3, 5, 9, 12, 15, 24	(H)	±1.8	±278	70
RA-XX3.3D	1.8, 3.3, 5, 9, 12, 15, 24	(H)	±3.3	±152	70
RA-XX05D	1.8, 3.3, 5, 9, 12, 15, 24	(H)	±5	±100	70
RA-XX09D	1.8, 3.3, 5, 9, 12, 15, 24	(H)	±9	±56	75
RA-XX12D	1.8, 3.3, 5, 9, 12, 15, 24	(H)	±12	±42	78
RA-XX15D	1.8, 3.3, 5, 9, 12, 15, 24	(H)	±15	±33	80
RA-XX24D	1.8, 3.3, 5, 9, 12, 15, 24	(H)	±24	±21	80

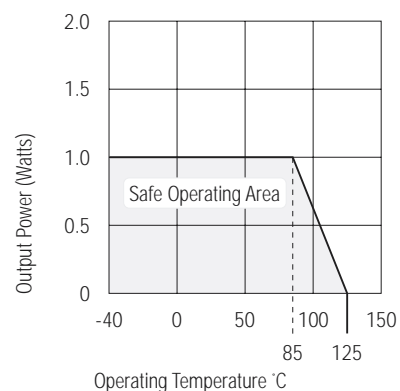


Features

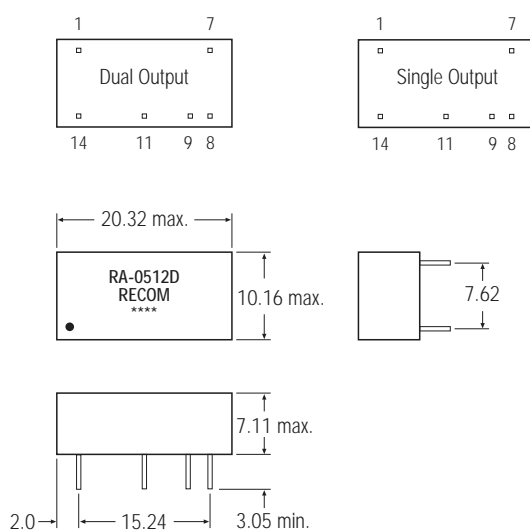
- Dual Output from a Single Input Rail
- Power Sharing on Output
- 1kVDC & 2kVDC Isolation
- Custom Solutions Available
- UL94V-0 Package Material
- Efficiency to 80%

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)	±10%
Ripple and Noise (20MHz limited)	50mVp-p max.
Efficiency at Full Load	70% min.
Isolation Voltage	1.000VDC min. (also available with 2.000VDC, Suffix „H“)
Short Circuit Protection	1 Second
Switching Frequency at Full Load	74kHz min. / 93kHz max.
Operating Temperature	-40°C to +85°C (see Graph)
Storage Temperature	-55°C to +125°C



Package Style and Pinning (mm)



Pin Connections

Pin #	Single	Dual
1	-Vin	-Vin
7	NC	NC
8	-Vout	Com
9	+Vout	-Vout
11	NC	-Vout
14	+Vin	+Vin

NC = No Connection

XX.X ± 0.5 mm
XX.XX ± 0.25 mm