

VA SERIES**1 WATT****VA-S1/D1(H)****Single Output**

- 1000 Vdc Isolation
- Up to 3000 Vdc Isolation
- 4 Pin SIL // 8 Pin DIL Package
- Low Ripple and Noise
- Unregulated
- Non-conductive Black Plastic Case
- MTBF > 2 MHours



Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
VA-0505S1/D1		5	200	80
VA-0509S1/D1		9	111	78
VA-0512S1/D1	5	12	100	78
VA-0515S1/D1		15	67	80
VA-0524S1/D1		24	50	82

VA-1205S1/D1		5	200	78
VA-1209S1/D1		9	111	78
VA-1212S1/D1	12	12	100	80
VA-1215S1/D1		15	67	80
VA-1224S1/D1		24	50	80

VA-2405S1/D1		5	200	78
VA-2409S1/D1		9	111	78
VA-2412S1/D1	24	12	100	80
VA-2415S1/D1		15	67	82
VA-2424S1/D1		24	50	82

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
VA-0505S1/D1H		5	200	80
VA-0509S1/D1H		9	111	78
VA-0512S1/D1H	5	12	100	78
VA-0515S1/D1H		15	67	80
VA-0524S1/D1H		24	50	82

VA-1205S1/D1H		5	200	78
VA-1209S1/D1H		9	111	78
VA-1212S1/D1H	12	12	100	80
VA-1215S1/D1H		15	67	80
VA-1224S1/D1H		24	50	80

VA-2405S1/D1H		5	200	78
VA-2409S1/D1H		9	111	78
VA-2412S1/D1H	24	12	100	80
VA-2415S1/D1H		15	67	82
VA-2424S1/D1H		24	50	82

1. Suffix "H" means 3000 Vdc Isolation.
2. Input Voltage is from 5 V to 48 V and Output Voltage is from 3.3 V to 24 V.

Input Specifications:

Voltage Range ±10%
Filter Capacitors

Isolation Specification:

Rated Voltage 1000 Vdc, Standard.
Up to 3000 Vdc.
Resistance 1000M Ω, Min.
Capacitance 60 pF, Typ.

Output Specifications:

Voltage Accuracy: ±3%, Max.
Ripple and Noise (at 20 MHz BW) 100mVp-p,Max.
Short Circuit Protection Momentary
Line Voltage Regulation ±1.2% / 1.0% of Vin
Load Voltage Regulation ±8%, load=20~100%
Temperature Coefficient ±0.02% /

General Specifications:

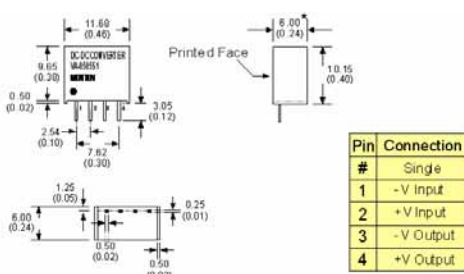
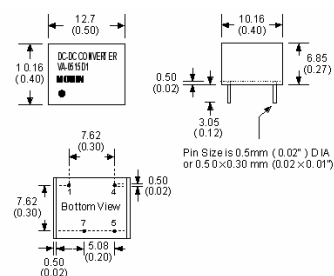
Efficiency 78% ~ 82%
Switching Frequency 80KHz, Typ.

Environmental Specification:

Operating Temperature (Ambient) -40 ~ +85
Case Temperature 90 Max.
Storage Temperature -40 ~ +125
Derating None Required
Humidity Up to 90%, Non-condensing
Cooling Free-air Convection

Capacitive Load: Single Output 220μF, Max.

Note: For Vin 48V series, pls. add a capacitor in the input point. Cx = 4.7 μF/100V ~ 47 μF/100V.

MECHANICAL DIMENSIONS & PIN CONNECTIONS**4 Pin DIL package****4 Pin DIL package**

Pin #	Connection
1	-V Input
4	+V Input
5	+V Output
8	Omitted
7	-V Output
8	Omitted

- Notes: 1. All dimensions are typical in millimeters (inches). Tolerance x.xx = +/-0.25 (+/-0.01)
2. * 7.50 (0.29) for SIP 48 Vdc variants.