

DC/DC Converter – V2-S, V2-SH

1 WATT

Dual Split Output

FEATURES

- 1000 Vdc Isolation
- Up to 3000 Vdc Isolation
- 7 Pin SIL Package
- Low Ripple and Noise
- Regulated
- Non-conductive Black Plastic Case
- MTBF > 2 MHours

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
V2-0505S	05	5,5	100,100	65
V2-1205S	12	5,5	100,100	67
V2-1505S	15	5,5	100,100	67
V2-2405S	24	5,5	100,100	69
V2-0505SH	05	5,5	100,100	65
V2-1205SH	12	5,5	100,100	67
V2-1505SH	15	5,5	100,100	67
V2-2405SH	24	5,5	100,100	69

1. Suffix "H" means 3 KV Isolation.

Input Specifications:

Voltage Range $\pm 10\%$
Filter Capacitors

Isolation Specification:

Rated Voltage 1000 Vdc, Standard
3000 Vdc, Suffix "H"
Resistance 1000M Ω Min.
Capacitance 60 pF, Typ.

Output Specifications:

Voltage Accuracy: $\pm 2\%$, Max.
Voltage Balance (Dual Outputs) $\pm 1\%$
Ripple and Noise (at 20 MHz BW) 50mVp-p, Max
Short Circuit Protection Short Term
Line Voltage Regulation $\pm 0.4\%$, Max.
Load Voltage Regulation $\pm 3\%$, Max.
Temperature Coefficient $\pm 0.02\%$ / °C

General Specifications:

Efficiency 65% ~ 69%
Switching Frequency 100 KHz, Typ.

Environmental Specification:

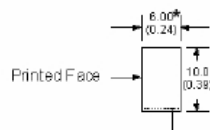
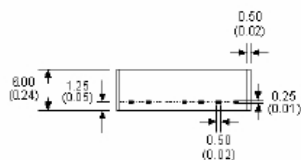
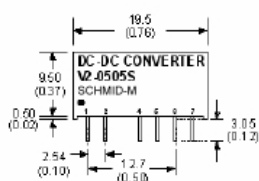
Operating Temperature (Ambient) $-25^{\circ}\text{C} \sim +71^{\circ}\text{C}$
Case Temperature 90°C Max.
Storage Temperature $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Derating None Required
Humidity Up to 90%, Non-condensing
Cooling Free-air Convection

Capacitive Load(Vout): 470 μF , Max.

Note: For Vin 48V series, pls. add a capacitor in the input. Cx = 4.7 $\mu\text{F}/100\text{V} \sim 47 \mu\text{F}/100\text{V}$.

MECHANICAL DIMENSIONS & PIN CONNECTIONS

7 SIL Package



Pin #	STANDARD	3 KV dc
1	+V Input	+V Input
2	-V Input	-V Input
4	+V2 Output	Omitted
5	Ground	+V2 Output
6	+V1 Output	Ground
7	Omitted	+V1 Output

Notes: 1. All dimensions are typical in millimeters (inches). Tolerance x.xx = ± 0.25 (± 0.01)