

DC/DC Converter – VS-S

1 WATT
Dual Output

FEATURES

- 3000 Vdc Isolation
- 6 Pin SIL 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 (%)
VS-053R3S	5	±3.3	±150	68
VS-0505S		±5	±100	72
VS-057R2S		±7.2	±69	74
VS-0509S		±9	±56	74
VS-0512S		±12	±42	76
VS-0515S		±15	±34	78
VS-123R3S	12	±3.3	±150	68
VS-1205S		±5	±100	72
VS-127R2S		±7.2	±69	74
VS-1209S		±9	±56	78
VS-1212S		±12	±42	78
VS-1215S		±15	±34	80
1. Input Voltage is from 5 V to 12 V and Output Voltage is from 3.3 V to 15 V.				

Input Specifications:

Voltage Range ±10%
Filter Capacitors

Isolation Specification:

Rated Voltage 3000 Vdc, Standard
Resistance 1000M Ω Min.
Capacitance 50 pF, Typ.

Output Specifications:

Voltage Accuracy: ±3%, Max.
Voltage Balance (Dual Outputs) ±1%
Ripple and Noise (at 20 MHz BW) ±75mVp-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% / °C

General Specifications:

Efficiency 68% ~ 80%
Switching Frequency 150 KHz, Typ.

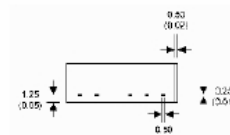
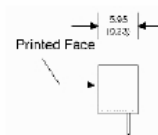
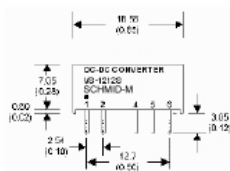
Environmental Specification:

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

Capacitive Load(Vout): ±100μF, Max.

MECHANICAL DIMENSIONS & PIN CONNECTIONS

6 Pin SIL package



Pin	3 KVdc
#	Dual
1	+V Input
2	-V Input
4	-V Output
5	Common
6	+V Output

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