

ALL PSU DATA SHEET.

ECV Series, 1 Watt 3000 Volt Isolated DC-DC Converter, (Dual Output).

(Miniature Encapsulated Single-in-Line Package).

General Description,

The ECV series are cost effective 1 Watt 3000 Volt Isolation dual output DC-DC converters. These converters achieve low cost and ultra-miniature SIP size without compromising performance or field reliability. Input voltages are available from 3.3 to 48 volts DC, producing dual output voltages of +/-3.3 to +/-18 Volts DC. Standard features include 3000 VDC input to output isolation (option of 1KVdc), high efficiency, and output voltage accuracy of +/-5% maximum. (single output versions are also available).

All models are packaged in ultra-miniature 19.50 x 6.00 x 9.50mm single-in-line package (SIL). Operation is specified over the full operating temperature range of -25°C to +71°C with no derating required Cooling is by free-air convection.

Electrical Specification,

Specifications typical at +25°C, nominal input voltage, rated output current unless otherwise specified.

Input Specifications:

Voltage Range +/-10%
Filter Capacitor

General Specifications:

Efficiency 70% to 85%
Switching Frequency 125 KHz Typical

Isolation Specifications:

Rated Voltage 3000 VDC
Leakage Current 1 mA
Resistance 10 to the 9 Ohm
Capacitance 60 pF, typical

Environmental Specifications:

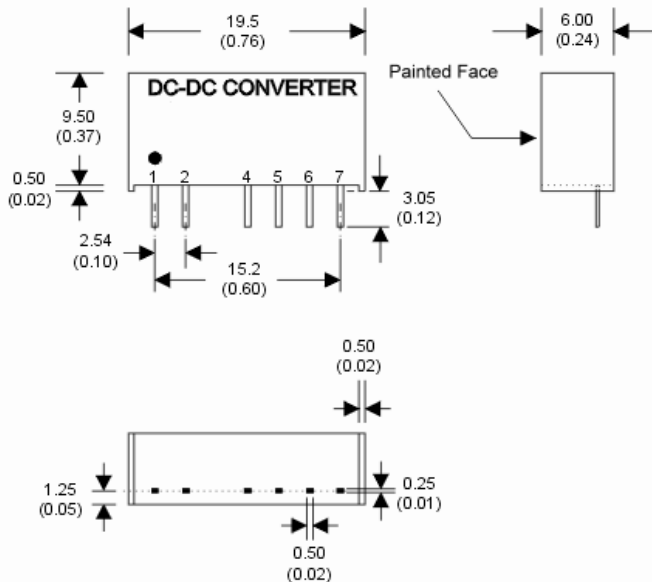
Operating Temp (ambient) -25°C to +71°C
Storage Temp -55°C to +125°C
Derating None Required
Humidity 90% non-condensing
Cooling Free-air convection

Output Specifications:

Voltage Accuracy +/-5%, max
Voltage Balance (dual o/p) +/-1%
Ripple & Noise (at 20 MHz BW) 75 mVp-p, max
Short Circuit Protection 1 Second
Line Voltage Regulation +/-1.2%/1% Vin
Load Voltage Regulation +/-8%, load=20 to 100%
Temperature Coefficient +/-0.02%/°C

Physical Characteristics:

Dimensions SIP 19.50 x 6.00 x 9.50mm
Weight 2 g
Case Material Non-conductive black plastic



Mechanical Drawing & Pin Connections SIL, Single-In-Line Version.

Pin	Connection
1	+V Input
2	-V Input
3	No Pin
4	-V Out
5	Common
6	+V Out
7	No Pin

Please Enquire For Mechanical Drawing And Connections For DIL, Dual-In-Line Version,

Example Part Number : ECV 0505S
1 Watt, Input 5 Volts, Dual +/-5 Volt Output,
3000 Volts Input to Output Isolation.

Further DC-DC Converters From 0.5
Watts To 2400 Watts Are Available And
Can Be Seen Listed At www.allpsu.co.uk

Specifications may change without notice. E&OE. ALL PSU Terms & Conditions Apply.

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