

ALL PSU DATA SHEET.

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

General Description,

The ECV-SA series are cost effective 1 Watt single output DC-DC converters. These converters achieve low cost and ultra-miniature SIP or DIP size without compromising performance or field reliability.

Input voltages are available from 3.3 to 48 volts DC, producing single output voltages of 3.3 to 15 Volts DC. Standard features include 3000 VDC input/output isolation (option of 1KVdc), high efficiency, and output voltage accuracy of +/-5% maximum.

All models are packaged in ultra-miniature 19.50 x 6.00 x 9.50mm single-in-line package (SIL) or 20.32 x 10.16 x 6.85mm dual-in-line packaged (DIL). 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:

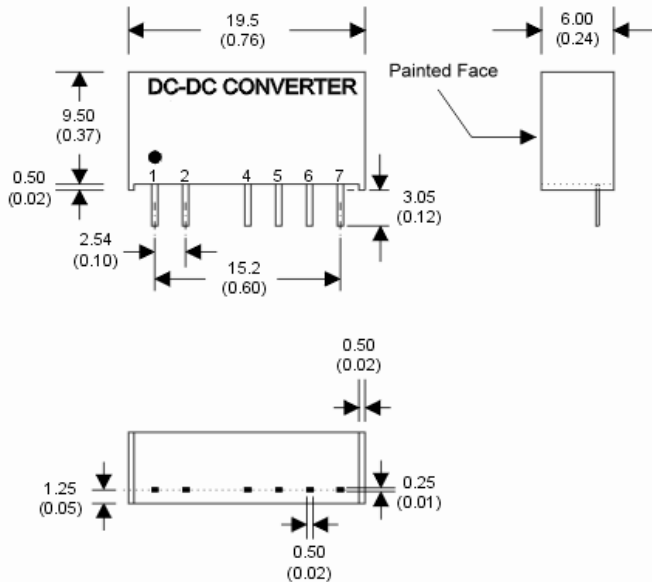
Operating Temp (ambient)	-25°C to +71°C
Storage Temp	-55°C to +125°C
Derating	None Required
Humidity	90% non-condensing
Cooling	Free-air convection

Output Specifications:

Voltage Accuracy	+/-5%, max
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 DIP 20.32 x 10.16 x 6.85mm
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	No Pin
5	0 V Out
6	No Pin
7	+V Out

Example Part Number ECV-1215SA
= 12 Volts Input, 15 Volts Output.

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

Further DC-DC Converters From ¼ Watt To 600 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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