## ALL PSU DATA SHEET.

### ECF Series, 1 Watt Isolated & Regulated DC-DC Converter, (Single Output).

#### General Description,

The ECF 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 5 to 24 volts DC, producing a single output voltage of 3.0 to 12 Volts DC. Standard features include 1000 VDC input/output isolation (option of 3KVdc), high efficiency, and output voltage accuracy of +/-3% maximum, and a fully regulated output to +/-0.5%.

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-inline packaged (DIL). Operation is specified over the full operating temperature range of –40\*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:General Specifications:Voltage Range+/-10%Efficiency60% to 75%FilterCapacitorSwitching Frequency125 KHz Typical

**Isolation Specifications:** Environmental Specifications:

Rated Voltage 1000 Vdc Operating Temp (ambient) -40\*C to +85\*C
Leakage Current 1 mA Storage Temp -55\*C to +125\*C
Resistance 10 to the 9 Ohm Derating None Required up

Resistance 10 to the 9 Ohm Derating None Required up to +71\*C
Capacitance 60 pF, typical Humidity 90% non-condensing
Cooling Free-air convection

Output Specifications: Physical Characteristics:

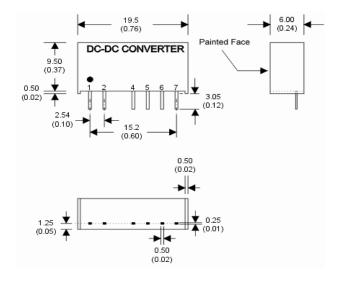
Voltage Accuracy +/-3%, max Dimensions SIP 19.50 x 6.00 x 9.50mm

DIP 20.32 x 10.16 x 6.85mm

Ripple & Noise (at 20 MHz BW) 50 mVp-p, max Weight 2.7 g

Short Circuit Protection 1 Second Case Material Non-conductive black plastic

Line Voltage Regulation +/-0.5% Load Voltage Regulation +/-0.5% Temperature Coefficient +/-0.02%/\*C



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

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

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

Example Part Number ECF-1209S = 1 Watt Input 12 Volts to Single 9 Volts Output, SIL.

Further DC-DC Converters From 0.5 Watt To 2400 Watts Are Available And Can Be Seen Listed At <a href="https://www.allpsu.co.uk">www.allpsu.co.uk</a>

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