



F Series FxxxxD-xW 3KVDC Isolation 0.1W~3W Unregulated single output DIP14 PIN

**Input Volt.**

3.3, 5, 9, 12, 15, 24 VDC

**Output Volt.**

3.3, 5, 9, 12, 15, 24 VDC

Other specifications required, please inquire us for details.

**Technical Parameters**

All the parameters below are tested at TA=25° C, nominal input voltage, rated output current.

**Input Parameters**

Volt. Range

+/- 10 %

Filter

Ceramic-capacitor

**Isolation Parameters**

Rated Isolation Volt.

3000 VDC

Leak current

&lt;1 m A

Resistance

10<sup>9</sup> Ohm

Capacitor

60 pF TYP.

**Output Parameters**

Volt. Precision

+/- 5 %, max.

(20 MHz BW) Ripple&amp;Noise

150mV p-p, max.

Continuous short-circuit time

Immediately (&lt;1s)

Linear volt. Calibration

+/- 1,2 % / 1,0 % of Vin

Load volt. Calibration

+/- 8 %, load = 20 ~ 100 %

Temperature index

+/- 0,02 % / °C

**General Parameters**

Efficiency

55% to 85 %

Switching Frequency

60~125 KHz, type.

**Environmental Parameters**

Operating Temp. (environmental)

- 40° C to + 85° C

Storage Temp.

- 55 °C to + 125 °C

Reducing rated value

See temperature derating graph below

Humidity

≤ 90 %, Non-compression

Colling method

Natural Free-air

**Dimension**

DIP Package size

20.4 x 10.0 x 8.2 mm

0.8 x 0.39 x 0.32 inch

**Weight**

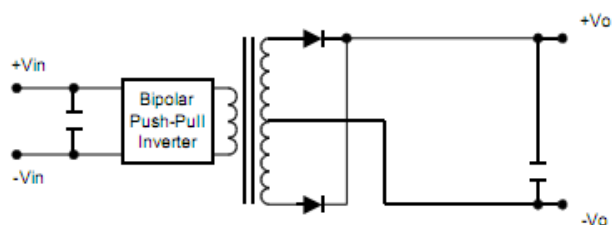
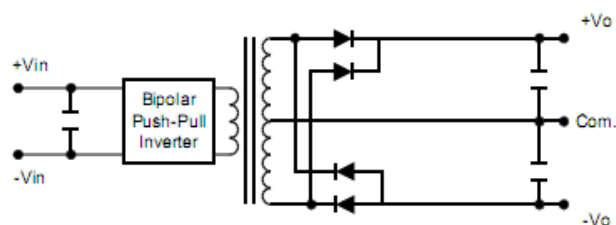
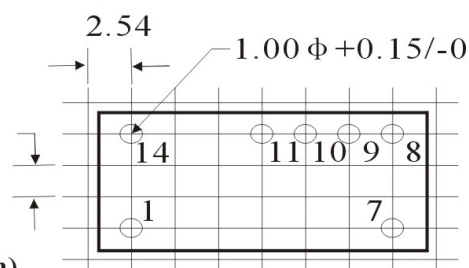
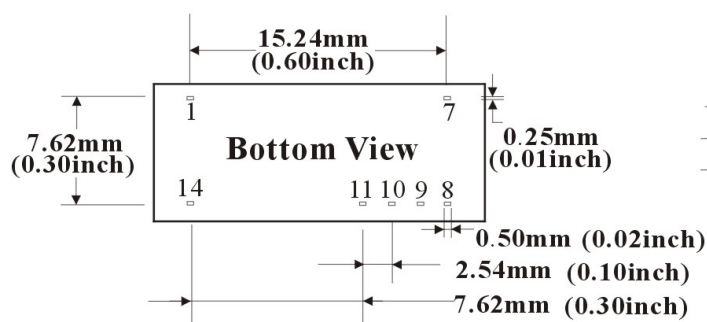
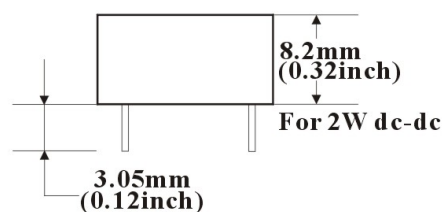
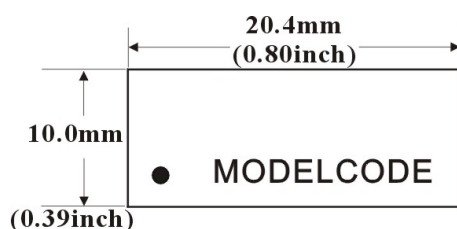
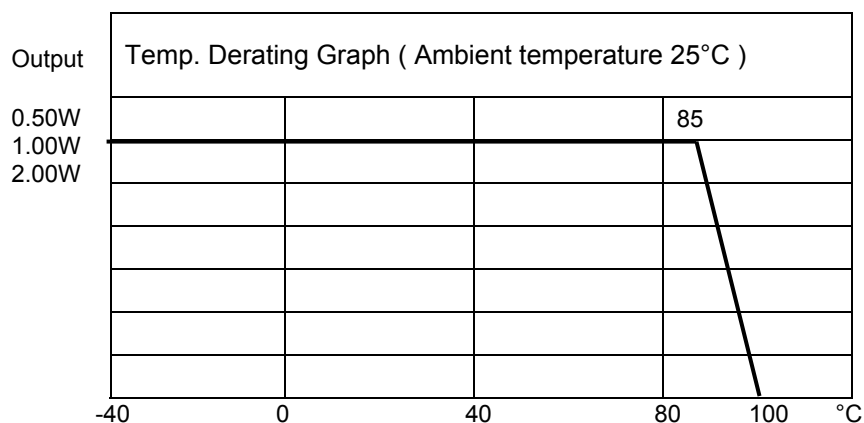
5 g~9.5 g

**External Package Material**

Non-conductive flame-retardant black plastics

**Typical Product List:** (The parameters below are collected at 8 hours full-load aging test.)

| Model No. | Input Volt.<br>Vin(VDC) | Input<br>Current<br>Empty load<br>(mA) | Input<br>Current<br>Full load<br>(mA) | Output<br>Volt.<br>Vout(VDC) | Output<br>Current<br>(max.mA) | Efficiency<br>Full load<br>(%TYPE) |
|-----------|-------------------------|----------------------------------------|---------------------------------------|------------------------------|-------------------------------|------------------------------------|
| F0505D-W1 | 5                       | 7                                      | 28                                    | 5                            | 20                            | 71                                 |
| F0505D-1W | 5                       | 25                                     | 279                                   | 4.85                         | 200                           | 70                                 |
| F1209D-1W | 12                      | 12                                     | 107                                   | 8.76                         | 111                           | 76                                 |
| F0515D-2W | 5                       | 47                                     | 461                                   | 14.6                         | 134                           | 85                                 |
| F0515D-3W | 5                       | 54                                     | 675                                   | 14.8                         | 200                           | 88                                 |

**Functional Block Diagram:****Single Output****Dual Output****External Dimension & PCB Installation:****DIP 14 封装****Temperature Derating Graph and PIN Definition**

| Pin   | Function |      |          |
|-------|----------|------|----------|
| 14    | +        | Vin  | Input +  |
| 1     | -        | Vin  | Input -  |
| 2~6   |          |      | NC       |
| 7     |          | NC   | NC       |
| 8     | +        | Vout | Output + |
| 9     |          |      | NC       |
| 10    | -        | Vout | Output - |
| 11~13 |          |      | NC       |
|       |          |      |          |

\* Note: the product design and specification are subject to change without notice.