

DC-DC CONVERTER

FXXXXD-2W

3KV ISOLATION, 2W OUTPUT, UNREGULATED, DIP 14 PACKAGE, MTBF>1M HOURS

Available Inputs:

5, 12, 15 and 24 VDC

Available Outputs:

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

Other specifications please enquire Sunyuan Technology.



Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

Input Specifications

Voltage range	+/- 10 %
Filter	Capacitors
Isolation Specifications	
Rated voltage	3000 VDC
Leakage current	1 mA
Resistance	10 ⁹ Ohm
Capacitance	60 pF type.

Output Specifications

Voltage accuracy	+/- 5 %, max.
Ripple and noise (at 20 MHz BW)	75 mV p-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	70 % to 85 %
Switching frequency	125 KHz, type.

Environmental Specifications

Operating temperature (ambient)	- 40° C to + 85° C
Storage temperature	- 55 °C to + 125 °C
Derating	See graph
Humidity	Up to 90 %, non condensing
Cooling	Free air convection

Physical Characteristics

Dimensions DIP	19,50 x 7,00 x 9,50 mm 0,76 x 0,28 x 0,37 inches
Weight	2.5 g, 3.5 g for the 48 VDC variants
Case material	Non conductive black plastic

Examples of Part Numbers

SUNYUAN PARTNO	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYPE.)
F0503D-2W	5	28	727	3.3	606	78
F0505D-2W	5	28	555	5	400	75
F0512D-2W	5	26	470	12	167	80
F1205D-2W	12	22	228	5	400	75
F1212D-2W	12	20	208	12	167	80
F1215D-2W	12	18	204	15	133	78
F2405D-2W	24	10	113	5	400	75
F2412D-2W	24	9	101	12	167	82
F2415D-2W	24	8	100	15	133	85

