

DC-DC CONVERTER

FXXXXD-1W:

3KV ISOLATION, 1W 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 6,00 x 9,50 mm 0,76 x 0,24 x 0,37 inches
Weight	2 g, 3 g for the 48 VDC variants
Case material	Non conductive black plastic

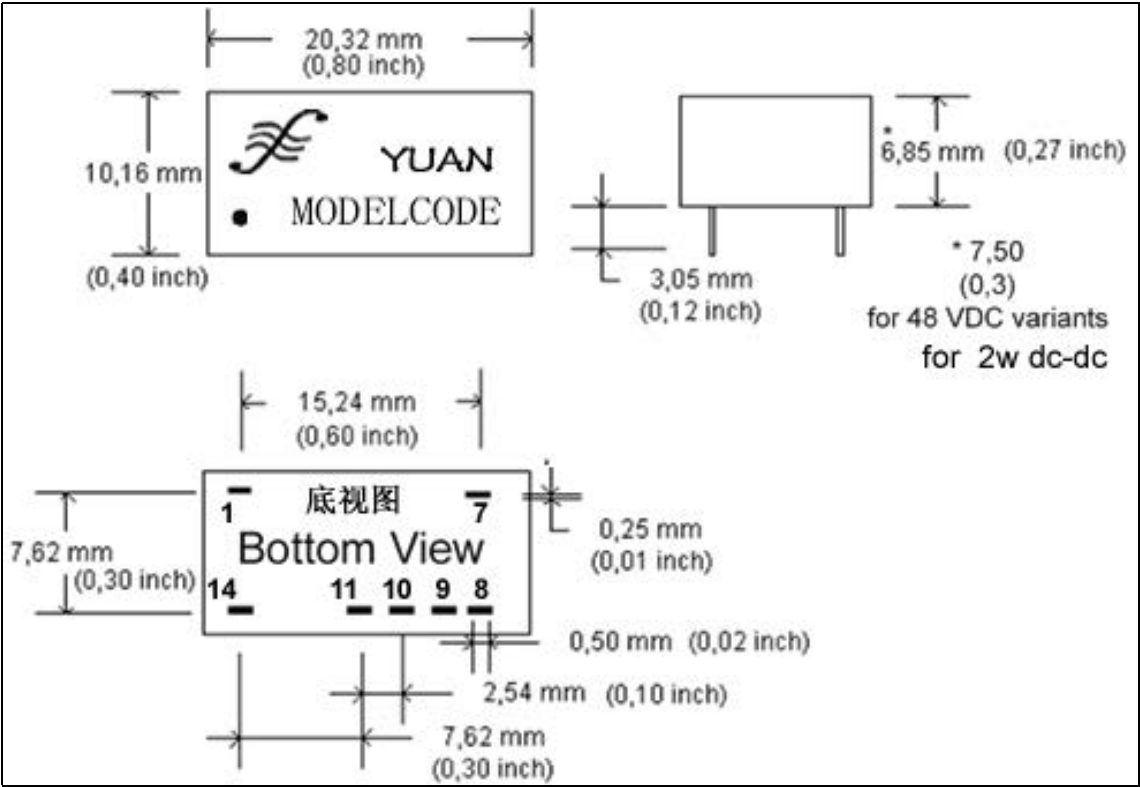
Examples of Part Numbers

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-1W	5	14	363	3.3	303	72
F0505D-1W	5	16	266	5	200	75
F0512D-1W	5	18	254	12	84	70
F1205D-1W	12	11	119	5	200	70
F1212D-1W	12	10	104	12	84	80
F1215D-1W	12	15	107	15	68	78
F2405D-1W	24	5	55	5	200	75
F2412D-1W	24	7	54	12	84	77
F2415D-1W	24	8	55	15	76	76

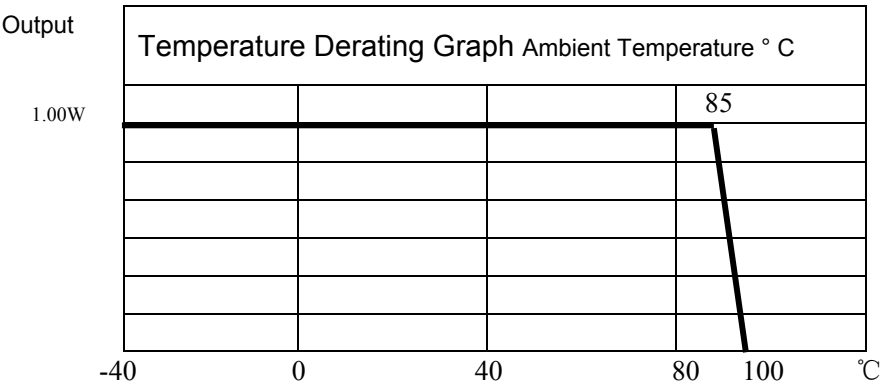
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Dimensions



Derating Graph and Pinning



Pin	Connection		
1	-	Vin	Input
2~6			Omitted
7			NC
8	+	Vout	Output
9			Omitted
10	0	0V	Common
11			Omitted
12,13			Omitted
14	+	Vin	Input