

DC-DC CONVERTER

BXXXXLD-1W

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

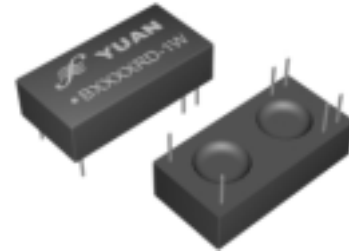
Available Inputs:

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	1000 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

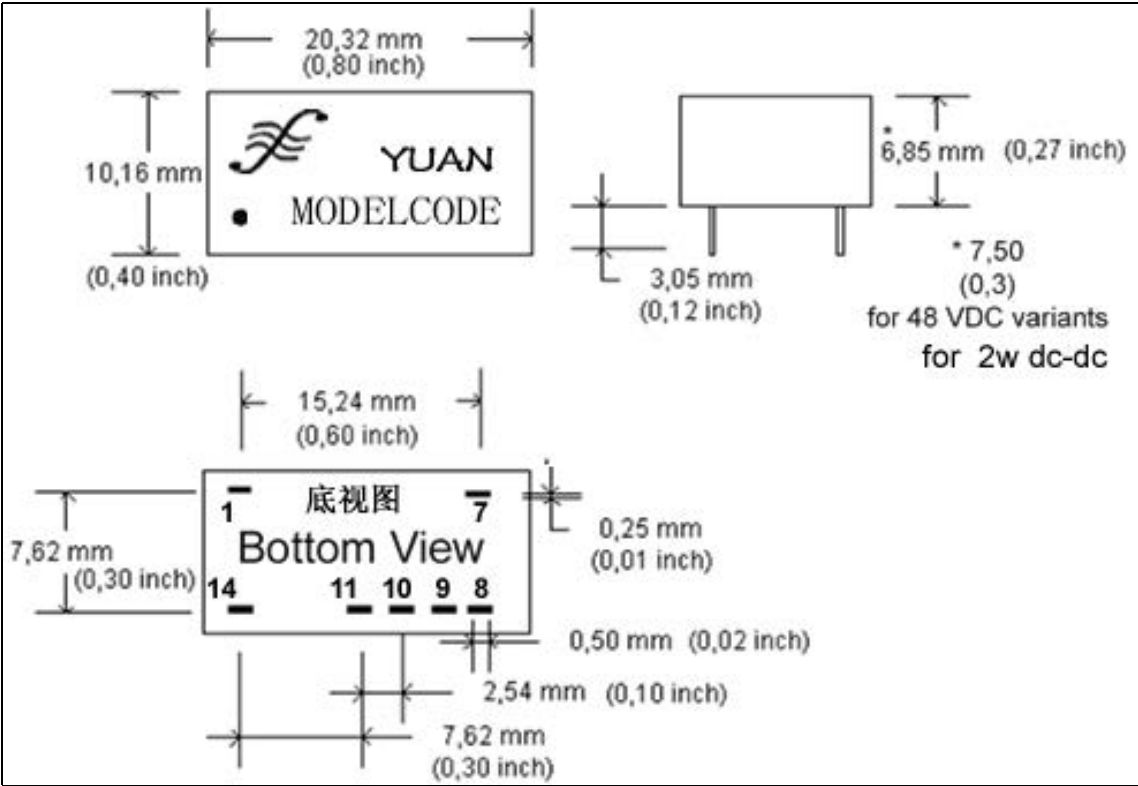
Examples of Part Numbers

SUNYUAN PARTNO	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYPE.)
B0503LD-1W	5	14	363	3.3	303	72
B0505LD-1W	5	16	266	5	200	75
B0512LD-1W	5	18	254	12	84	70
B1205LD-1W	12	11	119	5	200	70
B1212LD-1W	12	10	104	12	84	80
B1215LD-1W	12	15	107	15	68	78
B2405LD-1W	24	5	55	5	200	75
B2412LD-1W	24	7	54	12	84	77
B2415LD-1W	24	8	55	15	76	76

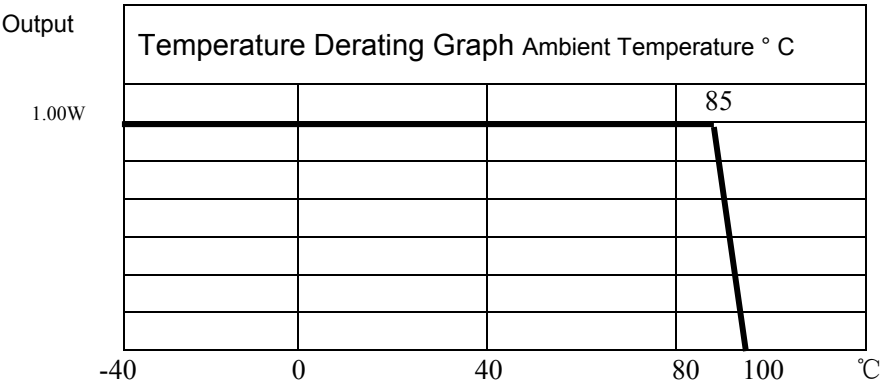
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Dimensions



Derating Graph and Pinning



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