

# DC-DC CONVERTER

## IBXXXX-1W

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

### Available Inputs:

5, 12, 15 and 24 VDC

### Available Outputs:

3.3, 5, 9, 12, 15, 18 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 <sup>9</sup> Ohm
Capacitance	60 pF type.

#### Output Specifications

Voltage accuracy	+/- 2 %
Ripple and noise (at 20 MHz BW)	30 mV p-p, max.
Short circuit protection	Short term
Line voltage regulation	+/- 0,5 % max., (3.3 VDC output +/- 1 % max )
Load voltage regulation	+/- 0,5 % typ., +/- 1 % max. (No load to full load)
Temperature coefficient	+/- 0,02 % / °C

#### General Specifications

Efficiency	58 % to 66 %
Switching frequency	70 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

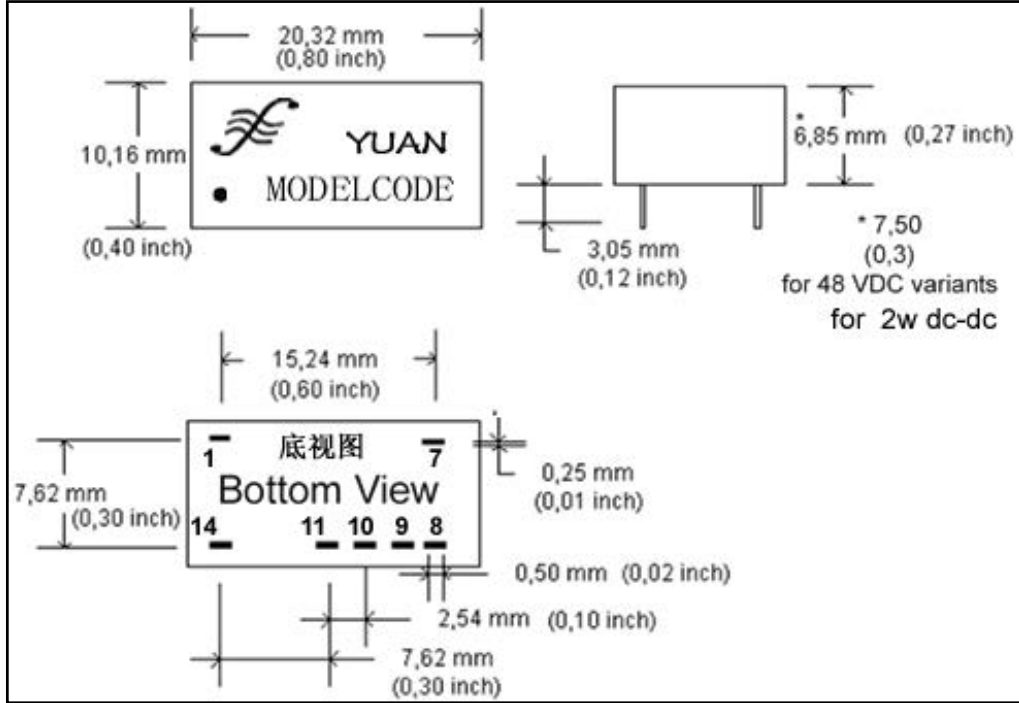
SUNYUAN PARTNO	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYPE.)
IB0503D-1W	5	22	220	3,3	200	60
IB0505D-1W	5	28	312	5	200	63
IB0512D-1W	5	45	312	12	84	64
IB1205D-1W	12	16	130	5	200	64
IB1212D-1W	12	22	123	12	84	68
IB1209D-1W	12	16	123	9	111	68
IB2405D-1W	24	7	64	5	200	65
IB2409D-1W	24	10	63	9	111	66
IB2412D-1W	24	10	63	12	84	66

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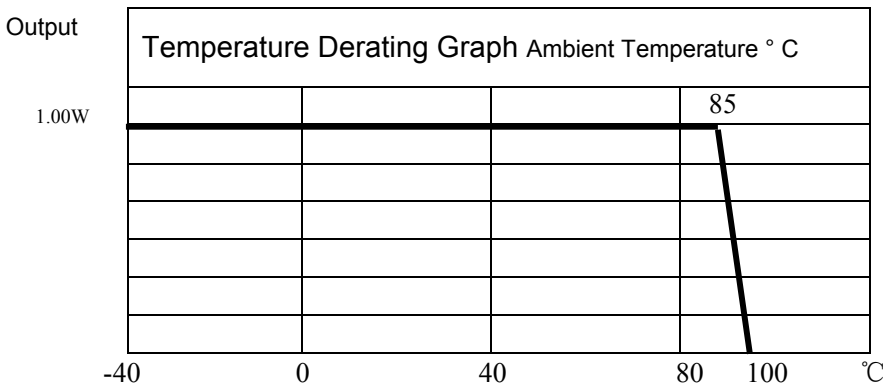
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## Dimensions



## Derating Graph and Pinning



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