

1000VDC IB Series 1W DC-DC CONVERTER

Features:

SIP7 PACKAGE

Single Output

Industrial Standard PIN-out

Output Power:1W

1000VDC Isolation

Fixed Input

Regulated Output

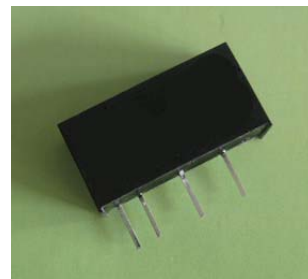
PCB Mounted

Input Voltage: 5V/12/15/24 VDC

Output Voltage: 3.3/5/9/12/15VDC

Input Range: $\pm 5\%$

Filter: Ceramic capacitors



OUTPUT SPECIFICATIONS

Items:	Testing condition	Min	Typ	Max
Output Accuracy	At full load and nominal Vin			$\pm 2\%$
Linear Voltage Calibration	For Vin change of 1%			$\pm 1.2\%$
Load Voltage Calibration	From 20% to full load			$\pm 8\%$
Ripple And Noise	20MHz bandwidth		50 mV p-p	
Temperature Coefficient				$\pm 0.02\% / ^\circ\text{C}$
Switching Frequency			125KHz	
Short Circuit Protection	Continuous Short Circuit Protection>20s			

All specifications measured at TA=25° C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.

COMMON SPECIFICATIONS

Items	Testing condition	Min	Typ.	Max
Operating Temperature Range		-40°C		+85°C
Storage Temperature Range		-55°C		+125°C
Humidity				<90%
Cooling	Free Air Convection			
Leak Current	<1mA			
Isolation Voltage (VDC)	Input to Output		1,000	
Isolation Resistance (Ohms)			10 ⁹	
Isolation Capacitance (pf)			60	
Efficiency (%)	See Product List	60		68
Case Material	Non-conductive black plastic			
Potting Material	Epoxy Resin UL94-V0			
Packing Material	Tube			
Dimension (mm / inch) (L*W*H)	SIP: 19.6*6.00*10.00 (0.77*0.24*0.39)			
Weight (G)	2.0~3.0			
MTBF (Hrs)	>1,000,000			

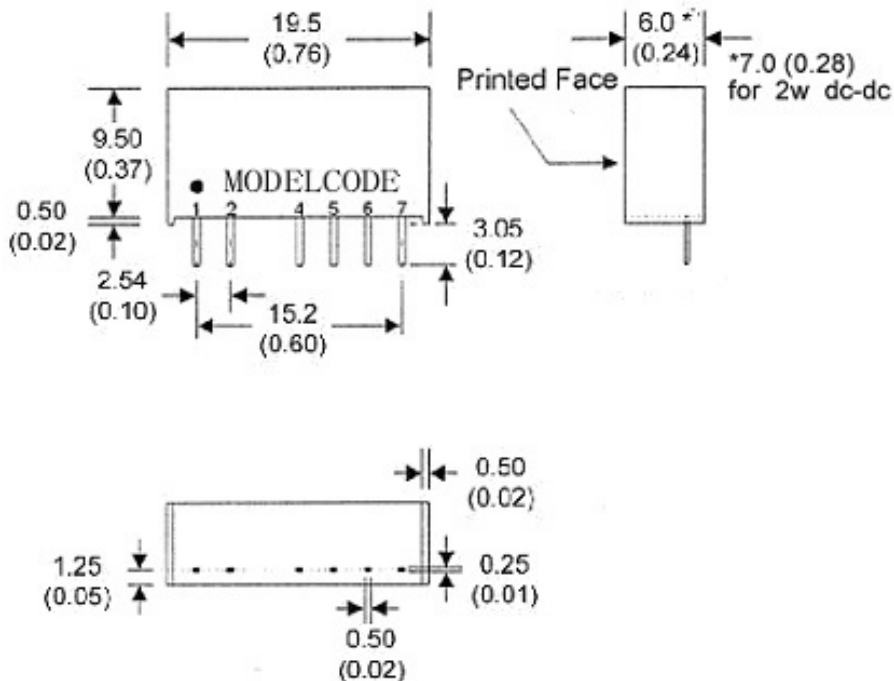
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PRODUCT LIST

Part No.	Vin(VDC)	Iin (No-load)(mA)	Iin (Full-load)(mA)	Vout (VDC)	Iout (max.mA)	Eff. (%TYPE)
IB0503S-1W	5	22	220	3,3	200	60
IB0505S-1W	5	28	312	5	200	63
IB0524S-1W	5	33	307	24	42	65
IB1205S-1W	12	16	130	5	200	64
IB1212S-1W	12	22	123	12	84	68
IB1209S-1W	12	16	123	9	111	68
IB2405S-1W	24	7	64	5	200	65
IB2409S-1W	24	10	63	9	111	66
IB2412S-1W	24	10	61	12	84	68

If need other input and output, please specified.

PCB Diagram and Footprint Function(unit:mm)



SIP	Function	
1	+Vin	Input+
2	GND	Input-
3		NO PIN
4	-Vo	Output-
5		NO PIN
6	+Vo	Output+
7		NO PIN

TEMPERATURE DERATING GRAPH

