

1000VDC IB Series 2W DC-DC CONVERTER

Features:

SIP7 PACKAGE

Single Output

Industrial Standard PIN-out

Output Power: 2W

1000VDC Isolation

Fixed Input

Regulated Output

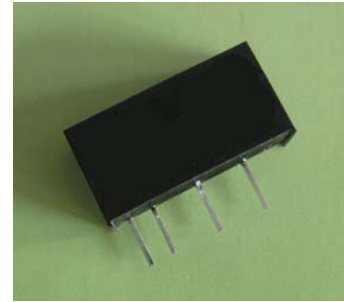
PCB Mounted

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

Output Voltage: 5/9/12/15VDC

Input Range: ±5%

Filter: Ceramic capacitors



OUTPUT SPECIFICATIONS

Items:	Testing condition	Min	Typ	Max
Output Accuracy	At full load and nominal Vin			±2%
Linear Voltage Calibration	For Vin change of 1%			±1.2%
Load Voltage Calibration	From 20% to full load			±8%
Ripple And Noise	20MHz bandwidth		50 mV p-p	
Temperature Coefficient				±0.02 %/°C
Switching Frequency			125KHz	
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	65		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*7.00*10.00 (0.77*0.28*0.39)			
Weight (G)	3.0			
MTBF (Hrs)	>1,000,000			

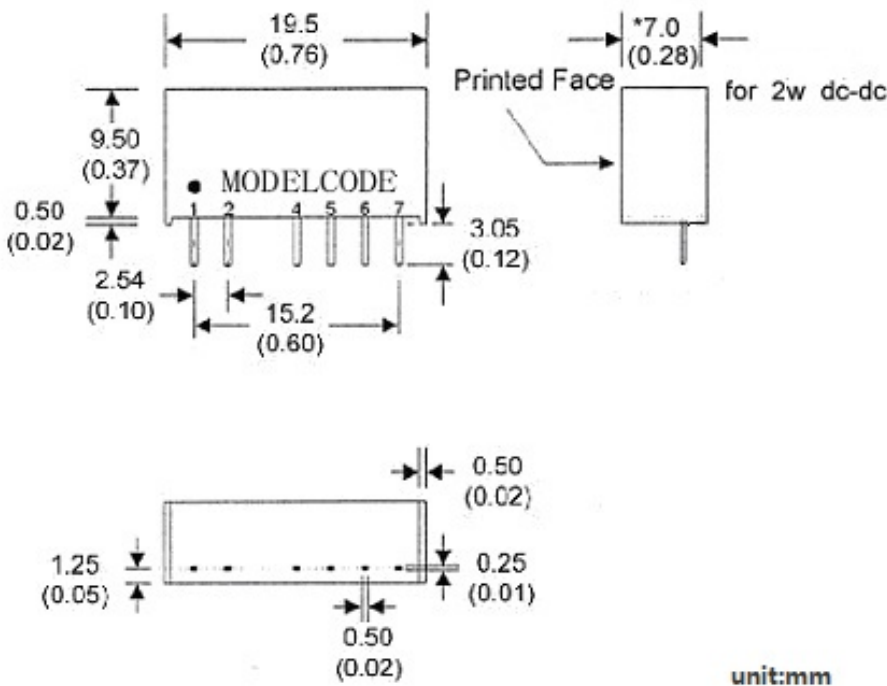
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PRODUCT LIST

Part No.	Vin(VDC)	Iin (No-load)(mA)	Iin (Full-load)(mA)	Vout (VDC)	Iout (max.mA)	Eff. (%TYPE)
IB0505S-2W	5	50	615	5	400	65
IB0509S-2W	5	47	545	9	200	66
IB1205S-2W	12	40	252	5	400	66
IB1209S-2W	12	38	220	9	200	68
IB1212S-2W	12	35	245	12	167	68
IB2405S-2W	24	16	128	5	400	65

If need other input and output, please specified.

PCB Diagram and Footprint Function(unit:mm)



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

TEMPERATURE DERATING GRAPH

