

1000VDC A Series 2W DC-DC CONVERTER

Features:

SIP7 PACKAGE

Dual Output

Industrial Standard PIN-out

No Heat Sink Required

1KVDC Isolation

Fixed Input

Unregulated Output

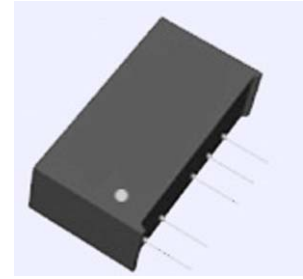
PCB Mounted

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

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

Input Range: ±10%

Filter: Ceramic capacitors



OUTPUT SPECIFICATIONS

Items:	Testing condition	Min	Typ	Max
Output Accuracy	At full load and nominal Vin			±5%
Linear Voltage Calibration	For Vin change of 1%			±1.2%
Load Voltage Calibration	From 20% to full load			±8%
Ripple And Noise	20MHz bandwidth			150 mV p-p
Temperature Coefficient				±0.02 %/°C
Switching Frequency			125KHz	
Short Circuit Protection	Momentary(<1s)			

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

COMMON SPECIFICATIONS

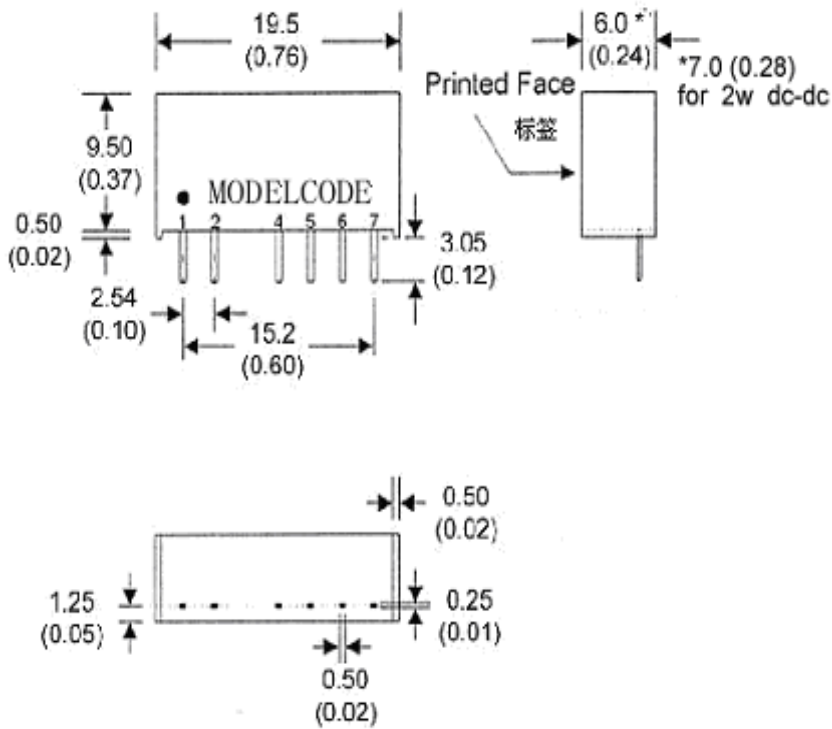
Items	Testing condition	Min	Typ.	Max
Operating Temperature Range		-40°C		+85°C
Storage Temperature Range		-55°C		+125°C
Humidity				<75%
Cooling	Free Air Convection			
Leak Current	<1mA			
Isolation Voltage (VDC)	Input to Output		1,000	
Isolation Resistance (Ohms)			10 ⁹	
Isolation Capacitance (pf)			60	
Efficiency (%)	See Product List	70		85
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)	2.0~3.0			
MTBF (Hrs)	>1,000,000			

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Part No.	Vin(VDC)	Iin (No-load)(mA)	Iin (Full-load)(mA)	Vout (VDC)	Iout (max.mA)	Eff. (%TYPE)
A0505S-2W	5	40	555	+/-5	+/-200	72
A1205S-2W	12	22	225	+/-5	+/-200	74
A1212S-2W	12	20	211	+/-12	+/-84	79
A1215S-2W	12	20	208	+/-15	+/-67	80
A2405S-2W	24	11	111	+/-5	+/-200	75
A2412S-2W	24	9	105	+/-12	+/-84	79
A2415S-2W	24	8	103	+/-15	+/-67	79

If need other input and output, please specified.

PCB Diagram and Footprint Function



SIP	Connection	
1	+Vin	Input
2	GND	Input
3		NO PIN
4	-Vo	Output
5	0V	Common
6	+Vo	Output
7		NO PIN

TEMPERATURE DERATING GRAPH

