

DC-DC CONVERTER

Features:

SIP7 PACKAGE

Dual Output

Industrial Standard PIN-out

No Heat Sink Required

1KVDC Isolation

Fixed Input

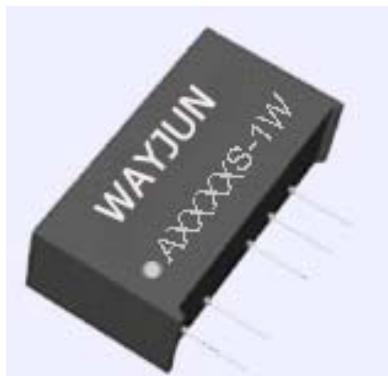
Unregulated Output

PCB Mounted

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

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

Input Range: ±10%



OUTPUT SPECIFICATIONS

Items:	Testing condition	Min	Typ	Max
Output Accuracy:	At full load and nominal Vin			±5%
Line Regulation:	For Vin change of 1%			1.2
Load Regulation:	From 20% to full load		10%	15%
Ripple And Noise:	20MHz bandwidth			100 mV p-p
Temperature Drift:				±0.02 %/°C
Switching Frequency			100KHz	
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			
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: 19.5*6.00*9.50 (0.76*0.24*0.37)			
Weight (G)	2.0~3.0			
MTBF (Hrs)	>1,000,000			

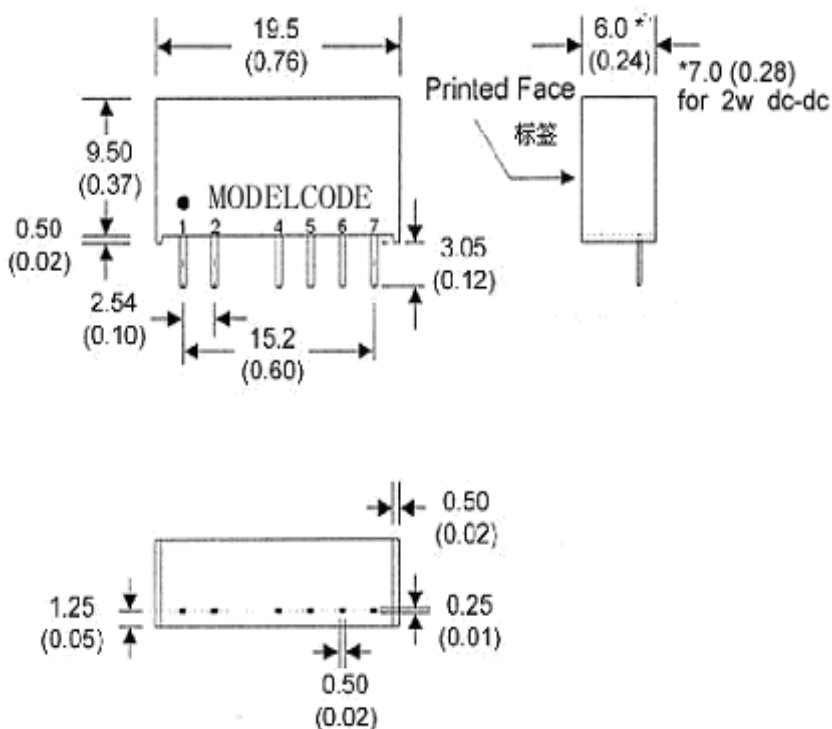
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Part No.	Vin(VDC)	Iin (No-load)(mA)	Iin (Full-load)(mA)	Vout (VDC)	Iout (max.mA)	Eff. (%TYPE)
A0505S-1W	5	20	281	+/-5	+/-100	72
A0509S-1W	5	20	253	+/-9	+/-55	78
A0515S-1W	5	11	250	+/-15	+/-33	78
A1205S-1W	12	10	119	+/-5	+/-100	74
A1212S-1W	12	15	104	+/-12	+/-42	79
A2403S-1W	24	6	56	+/-3.3	+/-150	75
A2405S-1W	24	7	55	+/-5	+/-100	72
A2412S-1W	24	8	55	+/-12	+/-42	79

Product List:

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

