

# IAXXXS-1~2W SERIES DC-DC CONVERTER

## Features:

**SIP10 PACKAGE**

**Dual Output**

**Industrial Standard PIN-out**

**No Heat Sink Required**

**1000VDC Isolation**

**Fixed Input**

**Regulated Output**

**PCB Mounted**

**Input Voltage: 5V/9/12/15/24 VDC**

**Output Voltage: (+/-)3.3/5/9/12/15VDC**

**Input Range: ±5%**

**Filter: Ceramic capacitor**



## OUTPUT SPECIFICATIONS

Items:	Testing condition	Min	Typ	Max
Output Accuracy:	At full load and nominal Vin			±2%
Line Regulation:	1.0% of Vin			±1.2%
Load Regulation:	From 20% to full load			±8%
Ripple and Noise:	20MHz bandwidth		50mVp-p	
Temperature Drift:				±0.02 %/°C
Switching Frequency			60~125 KHz	
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			
Isolation voltage (VDC)	Input to Output		1,000	
Isolation resistance (ohms)			10 <sup>9</sup>	
Isolation capacitance (pF)			60	
Leak Current	1mA			
Efficiency (%)	See Product List	60		80
Case material	Non-conductive black plastic			
Potting material	Epoxy Resin UL94-V0			
Packing material	Tube			
Dimension (mm / inch)	27.50*8.80*11.00 (1.08*0.34*0.43)			
Weight (g)	10			
MTBF (Hrs)	>1,000,000			

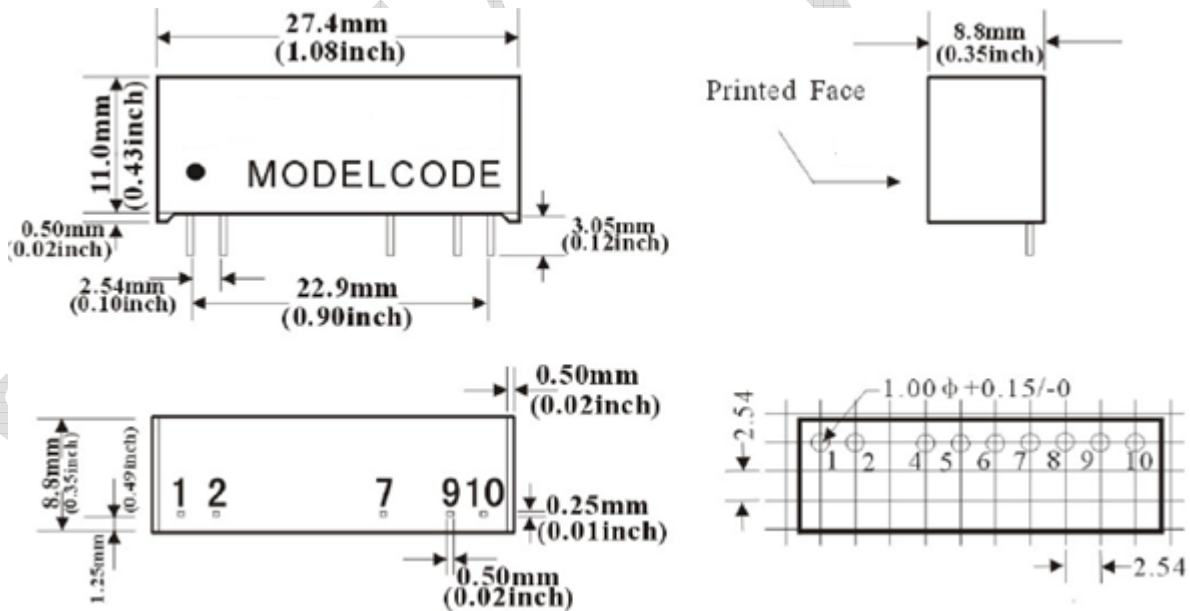
# IAXXXXS-1~2W SERIES DC-DC CONVERTER

Part No.	Vin(VDC)	Iin (No-load)(mA)	Iin (Full-load)(mA)	Vout (VDC)	Iout (max.mA)	Eff. (%TYPE)
IA0503S-1W	5	40	317	+/-3.3	+/-151	63
IA0505S-1W	5	40	285	+/-5	+/-100	70
IA0512S-1W	5	35	263	+/-12	+/-42	76
IA1205S-1W	12	25	124	+/-5	+/-100	67
IA1209S-1W	12	23	120	+/-9	+/-55	68
IA1212S-1W	12	23	128	+/-12	+/-42	65
IA2405S-1W	24	16	64	+/-5	+/-100	65
IA2412S-1W	24	13	63	+/-12	+/-42	66
IA2415S-1W	24	14	61	+/-15	+/-33	68

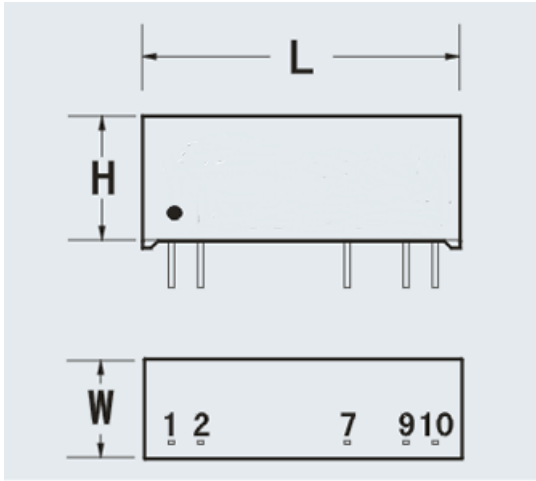
Part No.	Vin(VDC)	Iin (No-load)(mA)	Iin (Full-load)(mA)	Vout (VDC)	Iout (max.mA)	Eff. (%TYPE)
IA0503S-2W	5	50	615	+/-3.3	+/-303	65
IA0505S-2W	5	42	571	+/-5	+/-200	70
IA0512S-2W	5	50	506	+/-12	+/-84	79
IA1205S-2W	12	30	245	+/-5	+/-200	68
IA1212S-2W	12	28	238	+/-12	+/-84	70
IA1215S-2W	12	21	235	+/-15	+/-67	71
IA2405S-2W	24	10	112	+/-5	+/-200	74
IA2409S-2W	24	11	110	+/-9	+/-111	76
IA2412S-2W	24	12	114	+/-12	+/-84	73

If need other input and output, please specified.

## PCB Diagram and Footprint Function



# IAXXXS-1~2W SERIES DC-DC CONVERTER



Pin	Function	
1	+Vin	Input
2	GND	Input
3~6		No PIN
7	+Vo	Output
9	-Vo	Output
10	0V	Common

## TEMPERATURE GRAPH

