

DC-DC CONVERTER

IAXXXXS-2W

1KV ISOLATED, 2 W REGULATED DUAL OUTPUT, SIP 10 PACKAGE, MTBF>1M HOURS

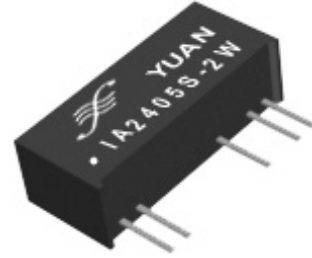
Available Inputs:

5, 12, 15 and 24 VDC

Available Outputs:

(+/-)3.3, 5, 9, 12, 15, 18 and 24 VDC

Other specifications please enquire Sunyuan Technology.



Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

Input Specifications

Voltage range	+/- 10 %
Filter	Capacitors
Isolation Specifications	
Rated voltage	1000 VDC
Leakage current	1 mA
Resistance	10 ⁹ Ohm
Capacitance	60 pF type.

Output Specifications

Voltage accuracy	+/- 2 %
Ripple and noise (at 20 MHz BW)	50 mV p-p, max.
Short circuit protection	Continuous , restart automatic
Line voltage regulation	+/- 0,5 % max.,
Load voltage regulation	+/- 0,5 % type, +/- 1 % max. (No load to full load)
Temperature coefficient	+/- 0,02 % / °C

General Specifications

Efficiency	60 % to 85 %
Switching frequency	125 KHz, type.

Environmental Specifications

Operating temperature (ambient)	- 40° C to + 85° C
Storage temperature	- 55 °C to + 125 °C
Derating	See graph
Humidity	Up to 90 %, non condensing
Cooling	Free air convection

Physical Characteristics

Dimensions SIP	27,50 x 8,80 x 11,00 mm 1,08x 0,34 x 0,43 inches
Weight	10g
Case material	Non conductive black plastic

Examples of Part Numbers

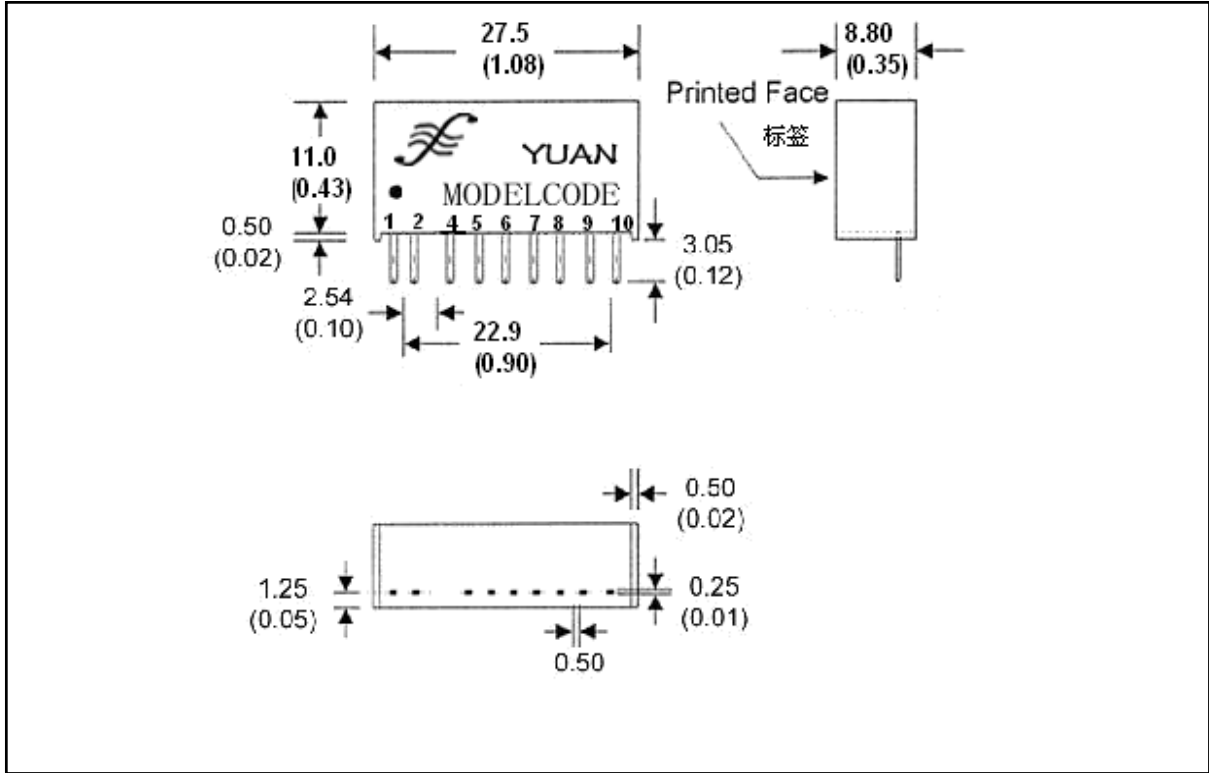
SUNYUAN PARTNO	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYPE.)
IA0503S-2W	5	36	620	+/-3,3	+/-303	61
IA0505S-2W	5	32	515	+/-5	+/-200	63
IA0512S-2W	5	28	506	+/-12	+/-84	64
IA1205S-2W	12	16	252	+/-5	+/-200	64
IA1212S-2W	12	22	250	+/-12	+/-84	68
IA1209S-2W	12	16	250	+/-9	+/-111	68
IA2405S-2W	24	7	128	+/-5	+/-200	75
IA2409S-2W	24	10	124	+/-9	+/-111	72
IA2412S-2W	24	10	121	+/-12	+/-84	70

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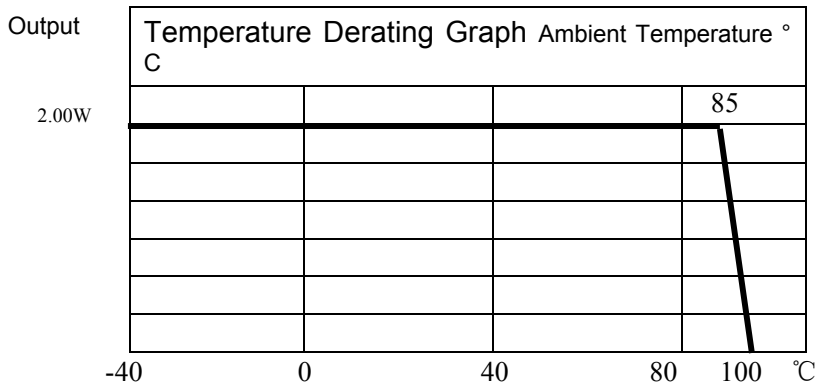
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Dimensions



Derating Graph and Pinning



Pin	Connection		
	1	+	V _{in}
2	-	V _{in}	Input
3			Omitted
4			Omitted
5			Omitted
6			Omitted
7	+	V _{out}	Output
8			Omitted
9	-	V _{out}	Output
10	0	0V	Common