DC ➔ DC POWER MODULE

IA SERIES

IA Series IAxxxxS-xW 1KVDC Isolation 0.2W~2W Regulated dual output SIP10 PIN

Input Volt.

5, 9, 12, 15, 24 VDC

Output Volt.

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

Other specifications required, please inquire us for details.

Technical Parameters

All the parameters below are tested at TA=25° C, nominal input voltage, rated output current.

Input Parameters

Volt. Range	+/- 10 %
Filter	Ceramic-capacitor

Isolation Parameters

Rated Isolation Volt.	1000 VDC
Leak current	<1 m A
Resistance	10^9 Ohm
Capacitor	60 pF TYP.

Output Parameters

Volt. Precision	+/- 2 %, max.
(20 MHz BW) Ripple&Noise	150mV p-p, max.
Continuous short-circuit time	Output over load and short-circuit protection (>20s)
Linear volt. Calibration	+/- 1,2 % / 1,0 % of Vin
Load volt. Calibration	+/- 8 %, load = 20 ~ 100 %
Temperature index	+/- 0,02 % / °C

General Parameters

Efficiency	60% to 80 %
Switching Frequency	60~125 KHz, type.

Environmental Parameters

Operating Temp. (environmental)	- 40° C to + 85° C
Storage Temp.	- 55 °C to + 125 °C
Reducing rated value	See temperature derating graph below
Humidity	≤ 90 %, Non-compression
Colling method	Natural Free-air

Dimension

SIP Package size	20.75 x8.80 x11.0 mm 1.08 x 0.34 x 0.43 inch

Weight

2.0 g~6.0 g

External Package Material

Non-conductive flame-retardant black plastics

Typical Product List:

（The parameters below are collected at 8 hours full-load aging test.）

Model No.	Input Volt. Vin(VDC)	Input Current Empty load (mA)	Input Current Full load (mA)	Output Volt. Vout(VDC)	Output Current (max.mA)	Efficiency Full load (%TYPE)
IA0505S-W2	5	10	66	+/-5	+/-20	60
IA1205S-W2	12	10	27	+/-5	+/-20	61
IA2405S-W2	24	10	14	+/-5	+/-20	61
IA0505S-W5	5	25	165	+/-5	+/-50	61
IA1205S-W5	12	16	66	+/-5	+/-50	63
IA2405S-W5	24	12	35	+/-5	+/-100	62
IA0503S-1W	5	35	505	+/-3.3	+/-150	60
IA0505S-1W	5	30	317	+/-5	+/-100	63

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Model No.	Input Volt. Vin(VDC)	Input Current Empty load (mA)	Input Current Full load (mA)	Output Volt. Vout(VDC)	Output Current (max.mA)	Efficiency Full load (%TYPE)
IA0512S-1W	5	28	312	+/-12	+/-42	64
IA1203S-1W	12	19	137	+/-3.3	+/-150	61
IA1205S-1W	12	16	130	+/-5	+/-100	64
IA1209S-1W	12	16	126	+/-9	+/-55	66
IA1212S-1W	12	15	123	+/-12	+/-42	68
IA1215S-1W	12	13	123	+/-15	+/-34	68
IA2403S-1W	24	12	67	+/-.3	+/-150	62
IA2405S-1W	24	10	64	+/-5	+/-100	65
IA2409S-1W	24	9	63	+/-9	+/-55	66
IA2412S-1W	24	8	63	+/-12	+/-42	66
IA2415S-1W	24	7	62	+/-15	+/-34	67
IA0503S-2W	5	50	645	+/-3.3	+/-300	62
IA0505S-2W	5	46	579	+/-5	+/-200	69
IA0509S-2W	5	42	606	+/-9	+/-100	66
IA0512S-2W	5	38	588	+/-12	+/-83	68
IA0515S-2W	5	35	579	+/-15	+/-67	69
IA1205S-2W	12	25	256	+/-5	+/-200	65
IA1209S-2W	12	23	253	+/-9	+/-100	66
IA1212S-2W	12	21	245	+/-12	+/-83	68
IA1215S-2W	12	18	240	+/-15	+/-67	68
IA2405S-2W	24	12	128	+/-5	+/-200	65
IA2409S-2W	24	10	126	+/-9	+/-100	66
IA2412S-2W	24	9	124	+/-12	+/-83	67
IA2415S-2W	24	8	123	+/-15	+/-67	68

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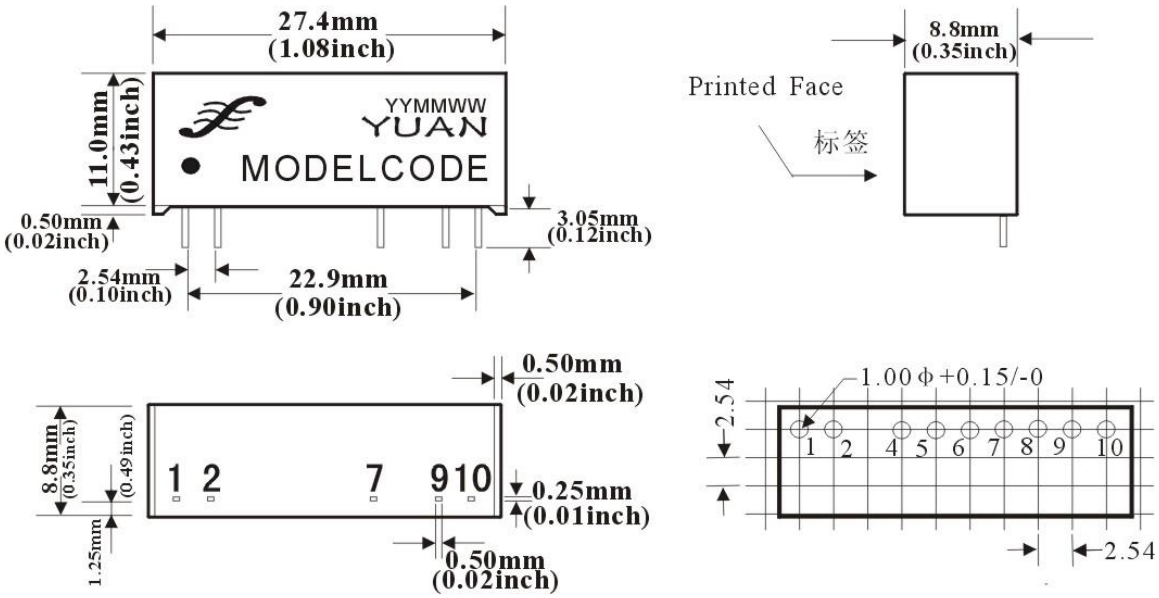
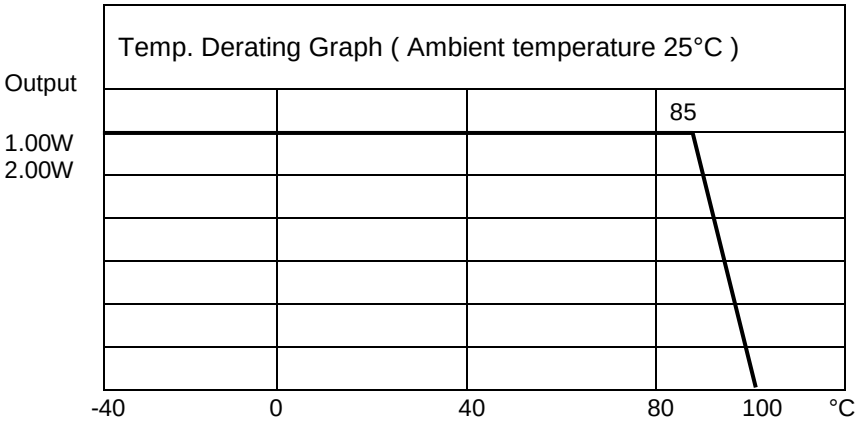
External Dimension & PCB Installation:



Temperature Derating Graph and PIN Definition



Pin	Function		
1	+	Vin	Input +
2	-	Vin	Input -
3~6			
7	+	Vout	Output +
8			
9	-	Vout	Output -
10	0	0V	Common

* Note: the product design and specification are subject to change without notice.

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