FEATURES：

- Fixed voltage input,regulaed single output,1W
- Continuous short-circuit protection,self recover
- I/O isolation voltage 3KV
- Working temperature：-40℃～+85℃
- No additional components required
- Stable performance and high reliability (MTBF≥3500K hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94V-0 requirements
- SIP package

Selection Guide

Part No.	INPUT		OUTPUT			Full Load Efficiency （%/Typ）	CapacitiveLoad(μF)
	Norminal （Vdc）	Range （Vdc）	Voltage (Vdc)	Min current (mA)	Max current (mA)		
IF0503KS-1WR3	5	4.75-5.25	3.3	25	250	67	2400
IF0505KS-1WR3			5	20	200	70	2400
IF0509KS-1WR3			9	12	111	71	1000
IF0512KS-1WR3			12	9	84	72	560
IF0515KS-1WR3			15	7	67	73	560
IF0524KS-1WR3			24	4	41	73	100
IF1205KS-1WR3	12	11.4-12.6	5	20	200	73	2400
IF1209KS-1WR3			9	12	111	73	1000
IF1212KS-1WR3			12	9	84	73	560
IF1215KS-1WR3			15	7	67	75	560
IF1505KS-1WR3	15	14.25-15.75	5	20	200	73	2400
IF1515KS-1WR3			15	7	67	75	560
IF2403KS-1WR3	24	22.8-25.2	3.3	25	250	71	2400
IF2405KS-1WR3			5	20	200	73	2400
IF2409KS-1WR3			9	12	111	73	1000
IF2412KS-1WR3			12	9	84	73	560
IF2415KS-1WR3			15	7	67	73	560

customized accepted ,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter	
Ctrl	NONE	
	NONE	
Hot Plug	Unavailable	

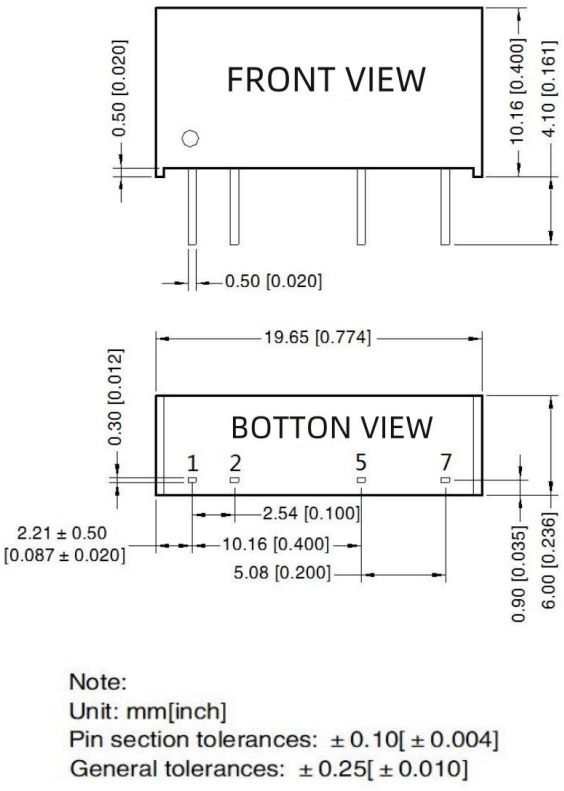
Output Specifications

Item	Typ	Max	Test Conditions
Voltage Accuracy	-	±3%	Input voltage range and load
Line Regulation	-	±0.25%	Input voltage ±1%

Load Regulation	±0.5%	±2%	10% to 100% full load
Ripple&Noise	50mVp-p	75mVp-p	20MHz Bandwidth, full load
Gerneral Specifications			
Switching Frequency	250KHz(Typ)		100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery		
Case Temperature Rise	25℃（Typ）		
Temperature Coefficient	0.02%/℃		100% full load
Pin Soldering Resistance Temperature	300℃		Soldering spot is 1.5mm away from case for 10 seconds
Isolation（Input-Output）	3KVDC		Input-output electric strength test for 1 minute with a leakage current
Insulation Resistance（Input-Output）	1000MΩ		Input-output resistance 500Vdc
Operating Temperature	-40～+85℃		
Storage Temperature	-55～+125℃		
Storage Humidity	<95%		Non-condensing
Cooling Method	Free air convection		
Case Material	Black plastic; flame-retardant and heat-resistant (UL94V-0)		
Weight	2g（Typ）		

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

Dimensions and Recommended Layout

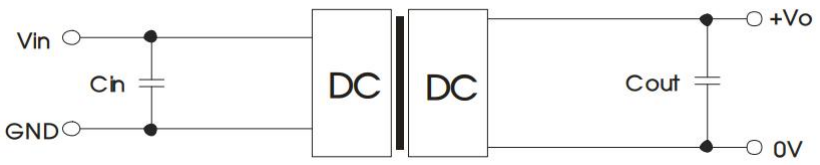


Note:
Unit: mm[inch]
Pin section tolerances: ± 0.10[± 0.004]
General tolerances: ± 0.25[± 0.010]

Pinout

Pin	Mark		
1	Vin		
2	GND		
5	0V		
7	+Vo		

Recommended Circuit



Single Vout	Cout	Vo	Cout
5VDC	4.7uF/16V	3.3/5VDC	10uF/16V
12/15VDC	2.2uF/25V	9VDC	2.2uF/16V
24VDC	1uF/50V	12VDC	2.2uF/25V
-	-	15VDC	1uF/25V
12VDC	2.2uF/25VDC	±12VDC	1uF/25V
15VDC	1uF/25VDC	±15VDC	0.47uF/25V
24VDC	1uF/50V	±24VDC	0.47uF/50V

Note

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.