

FEATURES:

- Fixed voltage input,regulated single output,0.25W
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- 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)		
IB0503LS-W2R3	5	4.75-5.25	3.3	7	76		
IB0505LS-W2R3			5	5	50		
IB0509LS-W2R3			9	2	28		
IB0512LS-W2R3			12	2	21		
IB0515LS-W2R3			15	1	17		
IB0524LS-W2R3			24	1	10		
IB1205LS-W2R3	12	11.4-12.6	5	5	50		
IB1209LS-W2R3			9	2	28		
IB1212LS-W2R3			12	2	21		
IB1215LS-W2R3			15	1	17		
IB1505LS-W2R3	15	14.25-15.75	5	5	50		
IB1515LS-W2R3			15	1	17		
IB2403LS-W2R3	24	22.8-25.2	3.3	7	76		
IB2405LS-W2R3			5	5	50		
IB2409LS-W2R3			9	2	28		
IB2412LS-W2R3			12	2	21		
IB2415LS-W2R3			15	1	17		

customized accept,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter		
Ctrl	NONE		
	NONE		
Hot Plug	Unavailable		

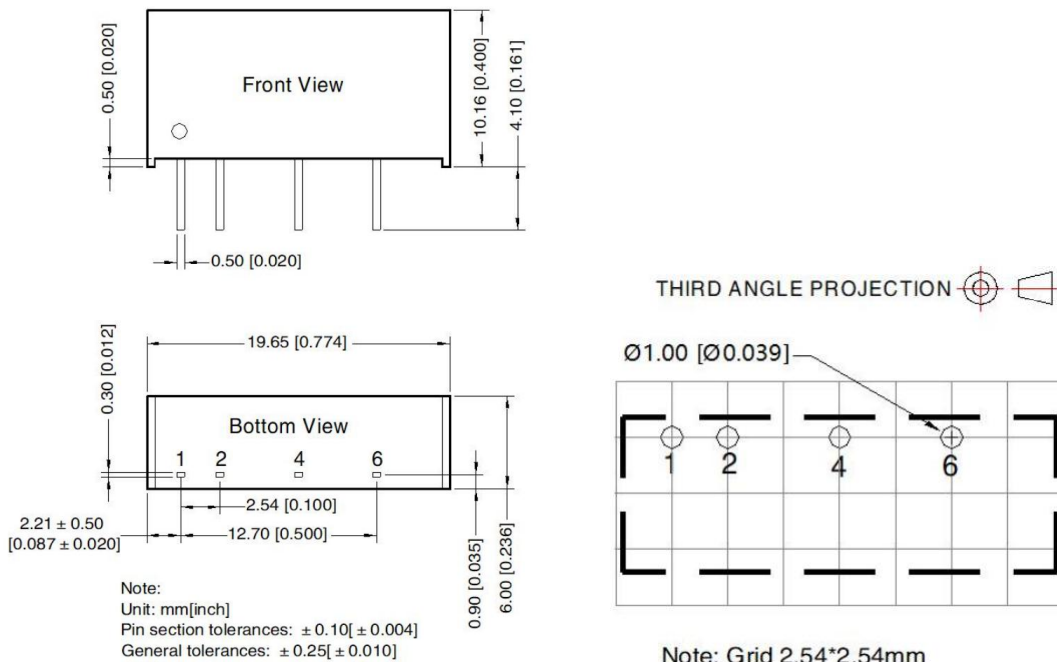
Output Specifications

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

Load Regulation	-	±2%	10% to 100% full load
Ripple&Noise	50mVp-p	75mVp-p	20MHz Bandwidth, full load
General Specifications			
Switching Frequency	250KHz(Typ)	100% full load, nominal input voltage	
Short-Circuit Protection	Continuous, self-recovery		
Case Temperature Rise	25°C (Typ)		
Temperature Coefficient	0.02%/°C	100% full load	
Pin Soldering Resistance Temperature	300°C	Soldering spot is 1.5mm away from case for 10 seconds	
Isolation (Input-Output)	1.5KVDC	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°C		
Storage Temperature	-55~+125°C		
Storage Humidity	<95%RH	Non-condensing	
Cooling Method	Free air convection		
Case Material	Black plastic; flame-retardant and heat-resistant (UL94V-0)		
Weight	2.2g (Typ)		

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

Dimensions and Recommended Layout



Pinout

Pin	Mark		
1	Vin		

2	GND		
4	0V		
6	+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

Noted

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.

*The final interpretation right of the product belongs to ECCO ELECTRONICS.