

FEATURES:

- Fixed voltage input, unregulated single/dual output, 2W
- Continuous short-circuit protection, self recover
- I/O isolation voltage 6KV
- Working temperature: -40°C~+105°C
- No additional components required
- Stable performance and high reliability (MTBF≥3500K hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94-V0 requirements
- SIP package

Selection Guide

Part No.	INPUT		OUTPUT			Full Load Efficiency (%/Typ)	Capacitive Load(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (Vdc)	Min current (mA)	Max current (mA)		
G0505S-2WR2	5	4.5-5.5	±5	20	200	78	470
G0509S-2WR2			±9	12	111	78	470
G0512S-2WR2			±12	9	83	78	220
G0515S-2WR2			±15	7	67	80	220
H0505S-2WR2			5	40	400	77	1000
H0512S-2WR2			12	17	167	79	470
H0515S-2WR2			15	14	133	79	470
G1205S-2WR2	12	10.8-13.2	±5	20	200	74	470
G1209S-2WR2			±9	12	111	80	470
G1212S-2WR2			±12	9	83	80	220
G1215S-2WR2			±15	7	67	77	220
H1205S-2WR2			5	40	400	76	1000
H1212S-2WR2			12	17	167	79	470
H1215S-2WR2			15	14	133	81	470
G1505S-2WR2	15	13.5-16.5	±5	20	200	77	470
G1509S-2WR2			±9	12	111	80	470
G1515S-2WR2			±15	7	67	73	220
H1505S-2WR2			5	40	400	77	1000
H1515S-2WR2			15	14	133	82	470
G2405S-2WR2	24	21.6-26.4	±5	20	200	79	470
G2409S-2WR2			±9	12	111	81	470
G2412S-2WR2			±12	9	83	82	220
G2415S-2WR2			±15	7	67	81	220
H2405S-2WR2			5	40	400	79	1000
H2412S-2WR2			12	17	167	82	470
H2415S-2WR2			15	14	133	84	470

customized accepted ,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter	
Ctrl	NONE	
	NONE	
Hot Plug	Unavailable	

Output Specifications

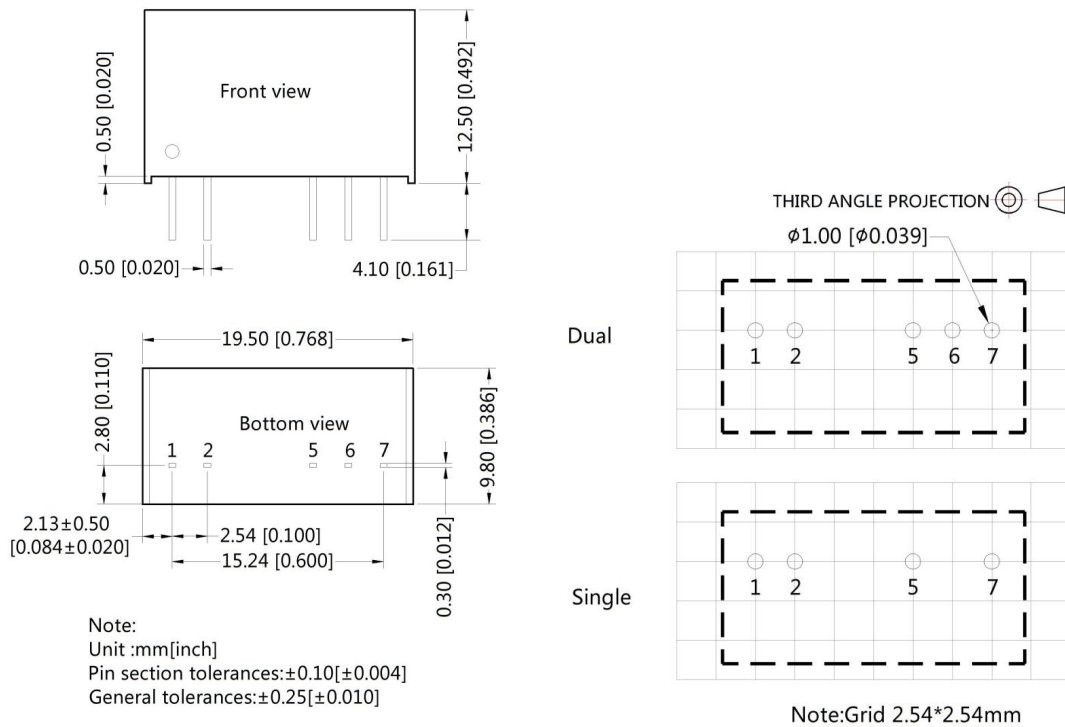
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	input voltage range and load
Line Regulation	±0.2%	±0.5%	Input voltage from low to high voltage, full load
Load Regulation	±0.5%	±1%	10% to 100% full load
Ripple&Noise	50mVp-p	150mVp-p	20MHz Bandwidth, full load

General Specifications

Switching Frequency	300KHz(Typ)	100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery	
Case Temperature Rise	15°C (Typ)	
Temperature Coefficient	0.03%/°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~+105°C	
Storage Temperature	-55~+125°C	
Storage Humidity	<95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Black plastic; flame-retardant and heat-resistant (UL94 V-0)	
Weight	2.1g (Typ)	

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

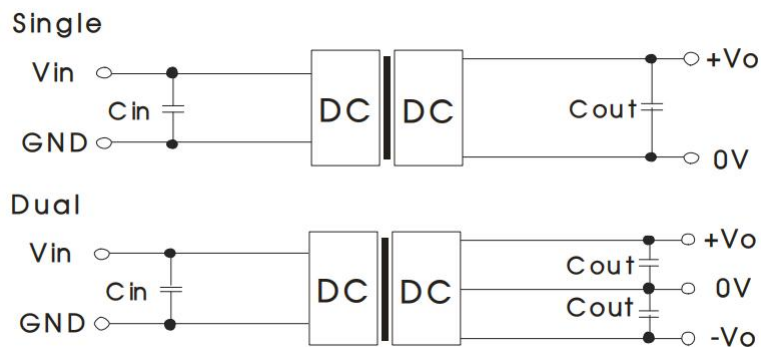
Dimensions and Recommended Layout



Pinout

Pin	Singe	Dual	
1	Vin	Vin	
2	GND	GND	
5	0V	-Vo	
6	No Pin	0V	
7	+Vo	+Vo	

Recommended Circuit



Recommended input and output capacitor values

Vin	Cin	Single Vout	Cout	Dual Vout	Cout
5VDC	10uF	5VDC	10uF	±5VDC	4.7uF
12/15VDC	4.7uF	12VDC	2.2uF	±9VDC	2.2uF
24VDC	2.2uF	15VDC	1uF	±12/±15VDC	1uF

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.