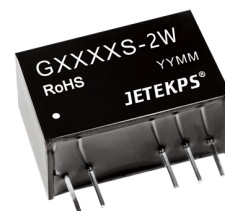


### FEATURES

- Small volume, high power density
- High efficiency, low output ripple and noise
- Low zero-load power consumption, low static current
- Long time short circuit protection and self-recovery
- superior thermal stability and temperature characteristics
- Wide temperature performance at full 1 watt load: -40 ~ +85
- Isolation Voltage:6000VDC
- High Reliability (MTTF≥350 ten thousand hours)
- International standard SIP package, save PCB installation space
- Environmental design, ROHS compliant
- 100% full load aging



**RoHS**  
Isolate/Non-stabilized  
Positive and negative output

### PRODUCT MODEL LIST

Order Code	Nominal Input Voltage (V)		Nominal Output Voltage		Efficiency [Typ] (%)	Capacitive Load [Max] (uF)
	Nominal	Range	Voltage (V)	Current (mA)		
G0505S-2W	5	4.5~5.5	±5	±200	75	1000
G0509S-2W			±9	±111	76	1000
G0512S-2W			±12	±83	80	680
G0515S-2W			±15	±67	76	680
G0524S-2W			±24	±42	84	680
G1205S-2W	12	10.8~13.2	±5	±200	75	1000
G1209S-2W			±9	±111	72	1000
G1212S-2W			±12	±83	79	680
G1215S-2W			±15	±67	80	680
G1505S-2W	15	13.5~16.5	±5	±200	82	1000
G1512S-2W			±12	±83	81	1000
G1515S-2W			±15	±67	81	1000
G2405S-2W	24	21.6~26.4	±5	±200	75	1000
G2409S-2W			±9	±111	78	1000
G2412S-2W			±12	±83	79	680
G2415S-2W			±15	±67	79	680
G2424S-2W			±24	±42	83	680

Ps : \*The positive and negative output capacitive loads are the same.

### OUTPUT CHARACTERISTICS

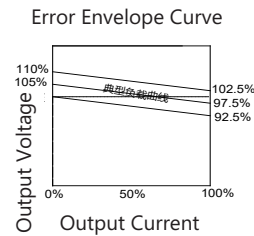
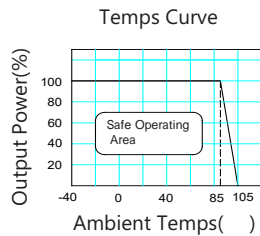
Parameter	Conditions	Min.	Typ.	Max.	Units
Output Power		0.2		2	W
Line Voltage Regulation	Input voltage change ±1% at rated load		±1.2	±1.5	%
Load Regulation	Load varies from 10% to 100% at nominal input		10	15	
Quiescent Current	Output load is 0 at nominal input	G05XX	≤20		mA
		etc.	≤10		
Temps Drift Coefficient	Rated load			±0.03	%/
Ripple & Noise	At 20MHz bandwidth		100	150	mVp-p
Switching Frequency	Rated input voltage		50		KHz
Output Short Circuit Protection	Sustainable and automatic restoration				
Input Filter	Filter capacitor				
Hot Plug	Nonsupport				
Output Voltage Accuracy	Refer to error envelope curve				

All Specifications Subject To Change Without Notice

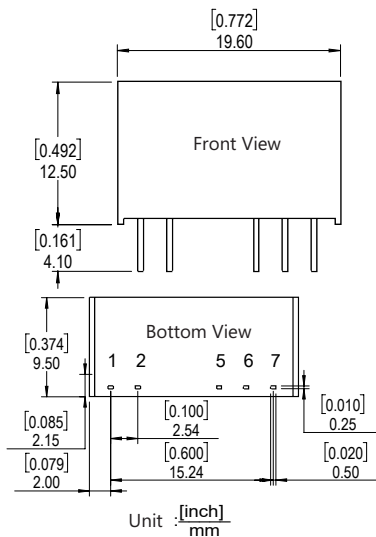
Guangzhou Jetekps Electronic Co., Ltd Tel:020-32029926 Fax:020-32029926 www.jetekps.com

Insulation Characteristic					
Parameter	Conditions	Min.	Typ.	Max.	Units
Insulation Resistance	500VDC	1000			M
Insulation Voltage	Test time 1 minute, leakage current less than 1 mA	6000			VDC

General Characteristic					
Parameter	Conditions	Min.	Typ.	Max.	Units
Storage Humidity		5		95	%
Operating Temps		-40		85	
Storage Temps		-55		125	
Operating Case Temps			15	25	
Pin Welding Temps	Welding joint 1.5mm from case,10 seconds operation			300	
MTTF	MIL - HDBK - 217@25	350			10000 hours
Weight			4.4		g
Cooling	Free air convection				
Case Material	Flame-retardant and heat-resistant plastic ( UL94-V0 )				



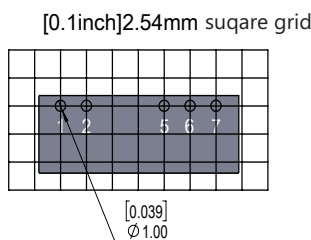
**Shape & Pin Dimensions**



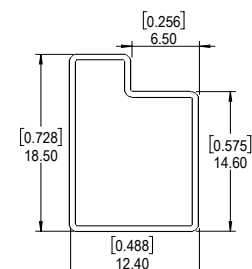
Pin	Function
1	Vin
2	GND
5	-Vo
6	0V
7	+Vo

ps:  
Terminal section tolerance: ±0.10 [±0.004]  
Unmarked tolerance: ±0.25 [±0.010]

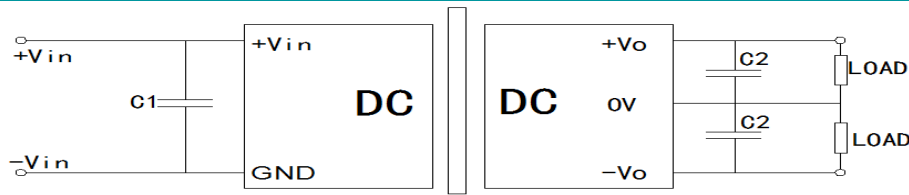
**PCB**



**Package Dimensions**



**Basic Application Circuit**



**Options of C1、C2:**

Input Voltage	External Capacitance	Output Voltage	External Capacitance
5VDC	4.7uF	±5VDC	4.7uF
12VDC	2.2uF	±9VDC	2.2uF
15/24VDC	1uF	±12/±15VDC	1uF
--	--	±24VDC	1uF

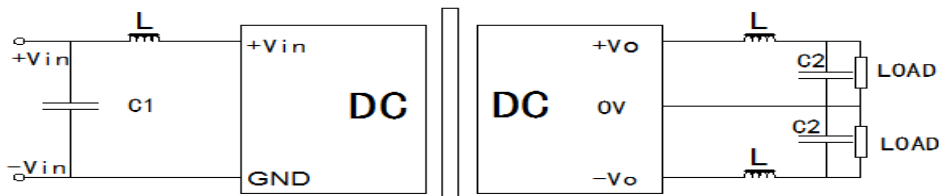
**Note**

**Try To Avoid No-load Use:** If the load power consumption is less than 10% of the rated output power of the module, it is recommended to connect a dummy load to the output terminal or select a module with a lower rated power. The dummy load (resistance) can be calculated by 10% of the rated power of the module, and the resistance value is  $R=U^2 / (10\% \times 2W)$ .

**Avoid Excessive Output External Capacitance:** The capacity value of the output external capacitor C2 should not be too large, otherwise it is easy to cause overcurrent or bad startup when the module is started. The specific value should be selected according to the external capacitor table.

The input of this series does not support parallel use of hot plug and output.

For situations requiring high ripple noise, external LC filter circuit should be connected, and the resonant frequency of LC filter should be far less than the switching frequency of DC/DC module to prevent mutual interference, resulting in output ripple increase or module damage, as shown in the figure:



**Naming Logic Of Constant Voltage Products**

B 05 05 LS Y-1W R1

