

FEATURES:

- Available outputs with $\pm 5.0V_{DC}$ 、 $\pm 12.0V_{DC}$ 、 $\pm 15.0V_{DC}$
- Internal thermal overload protection
- Short circuit protection



TYPICAL APPLICATION DIAGRAMS:



AMBIENT TEMPERATURE:

Operating temperature range (Tc) : $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (H)、 $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ (E / I)

Storage temperature range (Tstg) : $-65^{\circ}\text{C} \sim 150^{\circ}\text{C}$

MAIN ELECTRICAL SPECIFICATIONS:

Output Current : 1A

Output Voltage : $\pm 5V_{DC}$ 、 $\pm 12V_{DC}$ 、 $\pm 15V_{DC}$

Maximum Input Voltage : $\pm 30V_{DC}$

Thermal Resistance (junction to case) : $1^{\circ}\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS (H GRADE):

Model		WK118905	WK118912	WK118915							
Standard Outputs		±5V	±12V	±15V							
Standard Inputs		±10V	±19V	±23V							
Positive Output											
Parameter	Test conditions ¹⁾	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	单位
Output voltage	-55°C~+125°C	4.65	5	5.35	11.5	12	12.5	14.4	15	15.6	V
Line Regulation	-	-	-	50	-	-	120	-	-	150	mV
	(Vi=7.5~25V)										
Line Regulation	-55°C~+125°C	-	-	100	-	-	120	-	-	150	mV
	(Vi=7.5~18V)										
Load Regulation	Io=5mA~1A	-	-	100	-	-	100	-	-	150	mV
	(Vi=10V)										
Load Regulation	Io=10mA~0.5A	-	-	100	-	-	100	-	-	150	mV
	(Vi=10V)										
Load Regulation	-55°C~+125°C	-	-	100	-	-	100	-	-	150	mV
	(Vi=10V)										
Quiescent current	-	-	-	6	-	-	6	-	-	6	mA
Ripple Rejection ²⁾	-	68	-	-	61	-	-	60	-	-	dB
	(Vi=8~18V f=120Hz)										
Ripple Rejection ²⁾	(Vi=15~25V f=120Hz)										dB
	(Vi=18.5~28.5V f=120Hz)										
Dropout voltage	Io=1A -55°C~+125°C	-	2	2.5	-	2	2.5	-	2	2.5	V
Short circuit ²⁾	-	-	-	3.3	-	-	3.3	-	-	3.3	A
Negative Output											
Parameter	Test conditions ¹⁾	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	单位
Output voltage	-55°C~+125°C	-4.65	-5	-5.35	-11.5	-12	-12.5	-14.4	-15	-15.6	V
Line Regulation	-	-	-	100	-	-	240	-	-	300	mV
	(Vi=-7.5~-25V)										
Line Regulation	-55°C~+125°C	-	-	100	-	-	240	-	-	300	mV
	(Vi=-7.5~-18V)										
Load Regulation	Io=5mA~1A	-	-	100	-	-	240	-	-	300	mV
	(Vi=-10V)										
Load Regulation	Io=10mA-0.5A	-	-	100	-	-	240	-	-	300	mV
	(Vi=-10V)										
Load Regulation	-55°C~+125°C	-	-	100	-	-	240	-	-	300	mV
	(Vi=-10V)										
Quiescent current	-	-	-	3	-	-	3	-	-	3	mA
Ripple Rejection ²⁾	-	54	-	-	54	-	-	54	-	-	dB
	(ΔV=10V f=120Hz)										
Dropout voltage	Io=1A	-	1.4	2.5	-	1.1	2.5	-	1.1	2.5	V
	(Vi=-10V)										
Dropout voltage	-55°C~+125°C	-	1.4	2.5	-	1.1	2.5	-	1.1	2.5	V
	(Vi=-10V)										
Short circuit ²⁾	-	-	2.1	-	-	1.5	-	-	1.3	-	A

Notes:

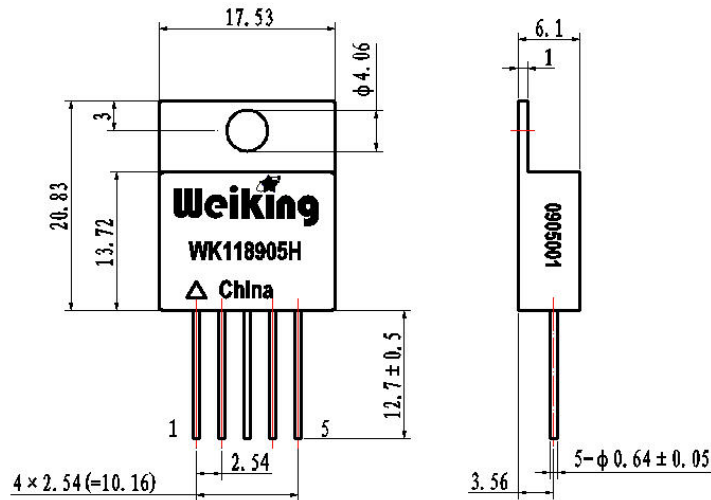
- 1) $T_c=25^{\circ}\text{C}$, $I_o=0.5\text{A}$ unless otherwise specified.
- 2) Guaranteed by design but not tested.
- 3) Class E and I device's parameters have the same values as class H except for environmental screening items.
- 4) When the internal power dissipation exceeds over 10 watts, a heatsink, as large as possible, should be considered. In any case of application, please assure a max, case temperature of $+125^{\circ}\text{C}$.
- 5) Other outputs as $\pm 9\text{V}$ 、 $\pm 18\text{V}$ 、 $\pm 20\text{V}$ 、 $\pm 24\text{V}$ are also available, for more information please contact us at 0086-29-85269988 or use our convenient service email at sale@weiking.com.

ENVIRONMENTAL SCREENING:

Num	Test	MIL-Std-883 Standard and methods	Test conditions	H	E	I	
1	Internal visual	2017	—	100%	100%	100%	
2	Seal	1014	Fine leak: A1 Gross leak: C1	100%	100%	100%	
3	Temperature cycling	1010	$-65^{\circ}\text{C}\sim+150^{\circ}\text{C}$ ten times	100%	—	—	
		—	$-55^{\circ}\text{C}\sim+125^{\circ}\text{C}$ ten times	—	100%	—	
4	Constant acceleration	2001	Y1 orientation, 1min 3000g	100%	100%	—	
5	Interim Electrical test	—	25°C	100%	100%	100%	
6	Burn-in	1015	125°C , 160h	100%	—	—	
			85°C , 96h	—	100%	—	
			85°C , 48h	—	—	100%	
7	Final electrical test	—	Normal temperature	25°C	100%	100%	100%
			Maximum rated	125°C	100%	—	—
				85°C	—	100%	—
			Minimum rated	-55°C	100%	—	—
-40°C	—	100%		—			
8	Seal	1014	Fine seal: A1 Gross seal: C1	100%	100%	—	
9	External visual	2009	—	100%	100%	100%	

MECHANICAL SPECIFICATIONS AND PIN-OUT INFORMATION:

Mechanical specifications in mm (eg.WK118905H) :



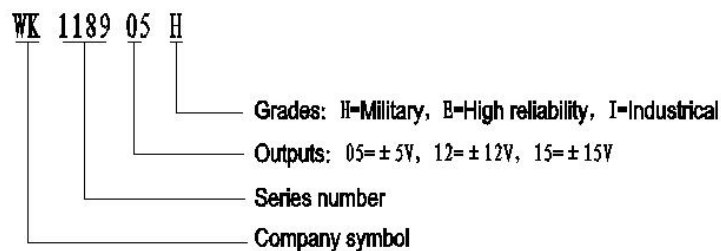
Pin-Out Information:

Pin number	1	2	3	4	5
Definition	Positive Input	Positive Output	Ground	Negative Input	Negative Output
Symbol	+Vin	+Vout	GND	-Vin	-Vout

Note: 1. when assembling, it' s suggested to install fixed screws prior to soldering module pins , which' s prone to enhance pins overstressed and thus cause the glass insulators cracked and module leaked.

2. T and TD package' case is also ground .

ORDERING INFORMATION:



Mark specification:

Serial Number: 0905 001,for example, indicates the product manufactured in the 5th week of 2009 and the sequence number is 001.