



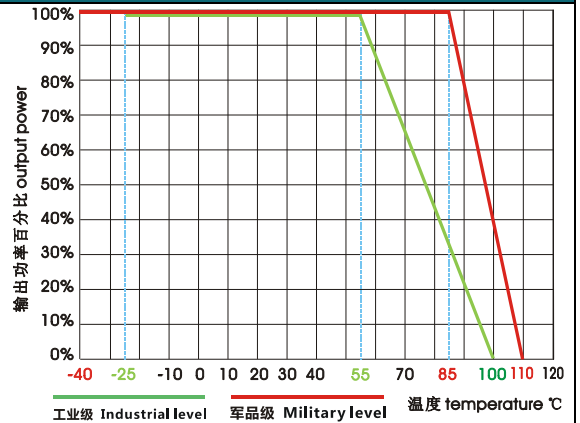
WD10-15 Series

DC/DC 宽压输入 10-15W (DC/DC wide input 10-15W)

Typical performance

- ◆ Wide Input voltage range (2:1 or 4:1)
- ◆ Typical Efficiency 80%
- ◆ Switching frequency: 300KHz ± 30 KHz
- ◆ Short circuit protection, Self-furbish
- ◆ Input-output isolate (500/1000/1500Vdc)
- ◆ PCB Board in-line type installs
- ◆ Metal case, Low Output Ripple

Temperature graph



Technology parameter

(Test condition : Unless otherwise indicated, specifications apply over all operating input voltage, resistive load, and temperature conditions)

Input	Min	Nom	Max	Notes
Input voltage	4.5	5	9	2:1
	9	12	18	2:1
	18	24	36	2:1
	36	48	72	2:1
	72	110	144	2:1
	10	12	36	4:1
	18	48	72	4:1
Remote ON/OFF	Non			
Input undervoltage protection	Lower than the low-input voltage protection. Self-furbish			

Output

Voltage accuracy		Vo1, V02	±1.0%, ±2.0%
Line regulation	Nominal Load, full voltage range	Vo1, V02	±0.2%, ±1.5%
Load regulation	20% ~ 100% rated voltage	Vo1, V02	±0.5%, ±4.0%
Ripple and noise	20MHz BM (Full Load) Vo ≤ 5.0V, ≤ 50mVp-p; Vo ≥ 48V, ≤ 180mVp-p; Other, ≤ 100mVp-p;		
Dynamic response	25% Nominal load step change (increase or reduce)	ΔVo1/Δt	±4.0/500us%

Voltage adjust	Nominal output	Non	
Turn-on delay time	Typical value		≤200mS

General

Efficiency	Nominal input, Full load	Vo≤5.0V,80%(Typical)	Vo>5.0V, 82%(Typical)
Switching frequency		300KHz (Typical)	Max 330KHz
Operating temperature	Free air	Industrial level	-25℃ ~ +55℃
		Military level	-40℃ ~ +85℃
Storage temperature		Industrial level	-40℃ ~ +105℃
		Military level	-55℃ ~ +120℃
Max case temperature		Industrial level	+100℃
		Military level	+110℃
Relative humidity			10%~90%
case material			Metal case
Isolation Voltage	500/1000/1500 Vdc ≤0.5mA/1min, 500Vdc ≤0.5mA/1min		
(MTBF)	2X10 ⁵ Hrs		

Product Nomination Method

Example	W D 5 - 48 S 05 J ① ② ③ ④ ⑤ ⑥ ⑦						
①	Wide range voltage input: 2:1	⑥	Output voltage				
②	Power convert mode D (DC-DC)	⑦	J : Indicate Military level, Non: Indicate Industrial level				
③	Output Watt		G : Indicate input output no isolate				
④	Input voltage		I : Indicate dual output isolate				
⑤	S: Single output D: dual output		W : Indicate wide range voltage input: 4:1				

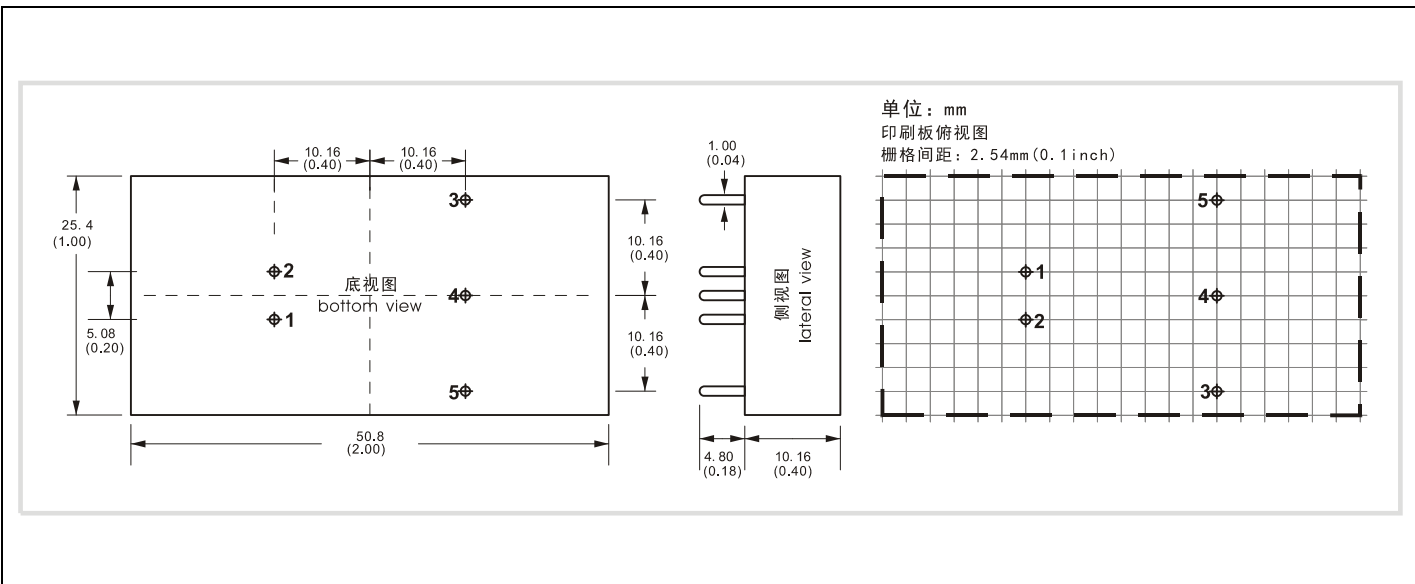
Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WD10-□S3V3	5V (4.5~9V) (不包含 WD15)	3.3V	2000mA				
WD10-□S05		5V	2000mA				
WD10-□S09	12V (9~18V) 24V (18~36V) 48V (36~72V) 110V (72~144V) 12V (10~36V) W	9V	1110mA				
WD10-□S12		12V	830mA				
WD10-□S15		15V	660mA				
WD10-□S24		24V	410mA				

WD12-□S3V3		3.3V	2400mA				
WD12-□S05		5V	2400mA				
WD12-□S09		9V	1330mA				
WD12-□S12		12V	1000mA				
WD12-□S15		15V	800mA				
WD12-□S24		24V	500mA				
WD15-□S05		5V	3000 mA				
WD15-□S12		12V	1200 mA				
WD15-□S15		15V	1000mA				
WD15-□S24		24V	625mA				
WD10-□D3V3		5V (4.5~9V) (not include WD15) 12 V (9~18V) 24V (18~36V) 48V (36~72V) 110V (72~144V) 12V (10~36V) 48V (18~72V)	+3.3V	1000 mA	-3.3V	1000 mA	
WD10-□D05	+5V		1000 mA	-5V	1000 mA		
WD10-□D09	+9V		550 mA	-9V	550 mA		
WD10-□D12	+12V		410 mA	-12V	410 mA		
WD10-□D15	+15V		330 mA	-15V	330 mA		
WD10-□D24	+24V		210 mA	-24V	210 mA		
WD12-□D3V3	+3.3V		1200 mA	-3.3V	1200 mA		
WD12-□D05	+5V		1200 mA	-5V	1200 mA		
WD12-□D09	+9V		660 mA	-9V	660 mA		
WD12-□D12	+12V		500 mA	-12V	500 mA		
WD12-□D15	+15V		400 mA	-15V	400 mA		
WD12-□D24	+24V		250 mA	-24V	250 mA		
WD15-□D05	+5V		1500 mA	-5V	1500 mA		
WD15-□D09	+9V		830 mA	-9V	830 mA		
WD15-□D12	+12V		600 mA	-12V	600 mA		
WD15-□D15	+15V		500 mA	-15V	500 mA		
WD15-□D24	+24V		310 mA	-24V	310 mA		

□Shows the nominal value of input voltage, due to space limitations ,the above list is only for some products, If demand for products out of above list, please contact the our sales department.

Mechanical Data



Mechanical Data

Package Code	L x W x H (unit): mm	Package No
	50.80 x 25.40 x 10.16	200100DC

Pin Assignments

Pin No	1	2	3	4	5					
Single	-Vin	+Vin	+Vout	NP	GND					
Dual	-Vin	+Vin	+Vout1	COM	-Vout2					

*Note: The power modules such as the definition of the pin does not match with the data sheet ,please refer to the actual item.