

Typical performance

- ◆ Wide Input voltage range (2:1)
- ◆ Typical Efficiency 82%
- ◆ Switching frequency: 300KHz
- ◆ Over current/Short circuit protection, Self-furbish
- ◆ Input-output isolate
- ◆ Board in-line type installs
- ◆ Metal case, Low Output Ripple


Technology parameter

Test condition: General Nominal Line, Tc=25 °C, Rated resistant load unless other wise specified.

Input	Min(v)	Nom(v)	Max(v)	Notes
Vdc 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
Remote ON/OFF	Non			
Input undervoltage protection	Lower than the low-input voltage protection , Self-furbish			

Output

Voltage accuracy		Vo1,Vo2	±1.0%, ±3.0%
Line regulation	Nominal Load, full voltage range	Vo1,Vo2	±0.2%, ±1.5%
Load regulation	20% ~ 100%	Vo1,Vo2	±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	△Vo1/△t	±4.0/500μ s/s
Voltage adjust		Non	
Turn-on delay time	Typical value		≤200mS

General

Efficiency	Nominal input, Full load	$V_o \leq 5.0V, 80\%$ Typical	$V_o > 5.0V, 82\%$ Typical
Switching frequency		300KHz Typical	MAX 330KHz
Operating temperature	Free air	Industrial Level	-25°C ~ +55°C
		Military Level	-40°C ~ +85°C
Storage temperature		Industrial Level	-40°C ~ +105°C
		Military Level	-55°C ~ +120°C
Max case temperature		Industrial Level	+100°C
		Military Level	+110°C
Relative humidity			10%~90%
Case material	Metal case		
Isolation Voltage	Input-output 1500 Vdc \leq 0.5mA/1min; Input-case 500Vdc \leq 0.5mA / 1min		
MTBF	2X10 ⁵ Hrs		

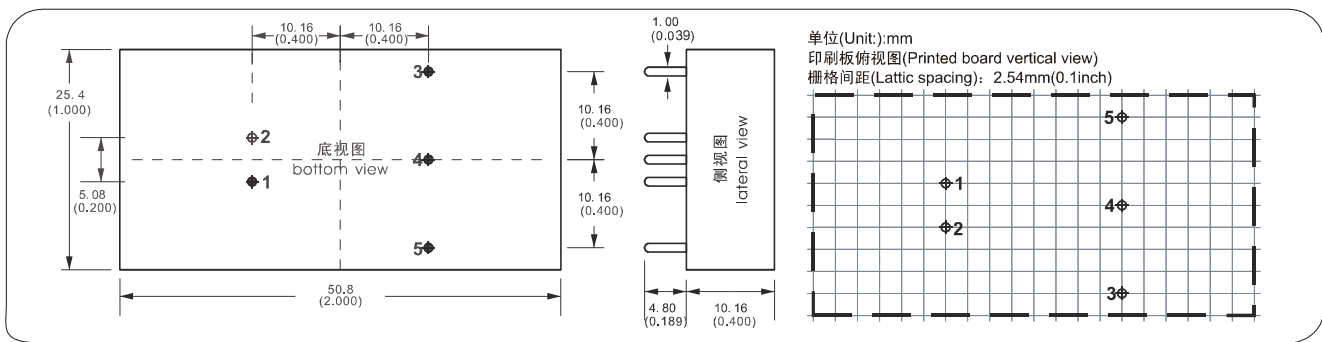
Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WD10-□S05B1	5V (4.5~9V) 12V (9~18V) 24V (18~36V) 48V (36~72V) 110V (72~144V)	5V	2000mA				
WD10-□S12B1		12V	830mA				
WD10-□S15B1		15V	660mA				
WD10-□S24B1		24V	410mA				
WD12-□S05B1		5V	2400mA				
WD12-□S12B1		12V	1000mA				
WD12-□S15B1		15V	800mA				
WD12-□S24B1		24V	500mA				
WD10-□D05B1		+5V	1000mA	-5V	1000mA		
WD10-□D12B1		+12V	410mA	-12V	410mA		
WD10-□D15B1		+15V	330mA	-15V	330 A		
WD10-□D24B1		+24V	210mA	-24V	210mA		
WD12-□D05B1		+5V	1200mA	-5V	1200mA		
WD12-□D12B1		+12V	500mA	-12V	500mA		
WD12-□D15B1		+15V	400mA	-15V	400mA		

WD12-□D24B1	+24V	250mA	-42V	250mA		
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□ Shows the nominal value of input voltage, due to space limitations ,the above list is only for some products, If other than a list of products, please contact the Company's sales department.

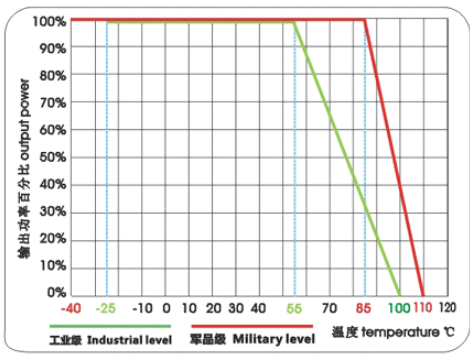
Mechanical Data



Mechanical Data

Packing Series No	L x W x H	
B1	50.80 × 25.40 × 10.16mm	2.000× 1.000 × 0.400inch

TYPICAL TEMPERATURE CURVE



Pin Assignments

Single	1	2	3	4	5
	-Vin	+Vin	+Vout1	NP	GND
Dual	1	2	3	4	5
	-Vin	+Vin	+Vout1	COM	-Vout2

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