

典型性能 Typical performance

- ◆ 宽范围输入 Wide Input voltage range (2:1)
- ◆ 转换效率 (典型 82%) Typical Efficiency 82%
- ◆ 开关频率 Switching frequency: 300KHz
- ◆ 长期短路保护, 自动恢复 Short circuit protection, Self-furbish
- ◆ 输入与输出高隔离 Input-output isolate
- ◆ PCB 板上直插式安装 Board in-line type installs
- ◆ 金属外壳, 输出纹波低 Metal case, Low Output Ripple


技术参数

测试条件: 如无特殊指定, 所有参数测试均在标称输入电压、纯阻性额定负载及 25℃ 室温环境下测得。

Technology parameter

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

输入特性 Input	Min(v)	Nom(v)	Max(v)	Notes
输入电压 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
遥控端 Remote ON/OFF	无遥控端 Non			
输入欠压保护 Input undervoltage protection	低于低端输入电压, 电源关断输出, 自动恢复 Lower than the low-input voltage protection , Self-furbish			

输出特性 Output

输出电压精度 Voltage accuracy			Vo1,Vo2	±1.0%, ±3.0%
源效应 Line regulation	标称负载, 全电压范围 Nominal Load, full voltage		Vo1,Vo2	±0.2%, ±1.5%
负载效应 Load regulation	20% ~ 100%额定负载		Vo1,Vo2	±0.5%, ±4.0%
纹波及噪声 Ripple and noise	20MHz BM 满载(Full Load) Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p			
动态响应 Dynamic response	25%的标称负载阶跃 25% Nominal load step		ΔVo1/Δt	±4.0/500μ s%
输出电压调节 Voltage adjust			无调节端 Non	
启动延迟时间 Turn-on delay time	典型值 Typical value			≤200mS

一般特性 General

转换效率 Efficiency	标称电压输入, 满载 Nominal input, Full load	Vo≤5.0V, 80%典型 Typical	Vo>5.0V, 82%典型 Typical
开关频率 Switching frequency	300KHz 典型 Typical		最大 MAX 330KHz

工作温度 Operating temperature	自由空气对流 Free air	工业级 Industrial Level	-25℃ ~ +55℃
		军品级 Military Level	-40℃ ~ +85℃
储存温度 Storage temperature		工业级 Industrial Level	-40℃ ~ +105℃
		军品级 Military Level	-55℃ ~ +120℃
最大壳温 Max case temperature		工业级 Industrial Level	+100℃
		军品级 Military Level	+110℃
相对湿度 Relative humidity			10%~90%
外壳材料 case material	金属壳 Metal case		
隔离电压 Isolation Voltage	输入与输出 Input-output 500/1000/1500 Vdc ≤ 0.5mA/1min; 输入与外壳 Input-case 500Vdc ≤ 0.5mA / 1min 注: 如无特殊说明产品隔离电压均为 500Vdc。 Note: unless otherwise indicate, isolated voltage 500VDC normally		
最小无故障间隔时间(MTBF)	2X10 ⁵ Hrs		

典型产品列表 Typical product tabulates

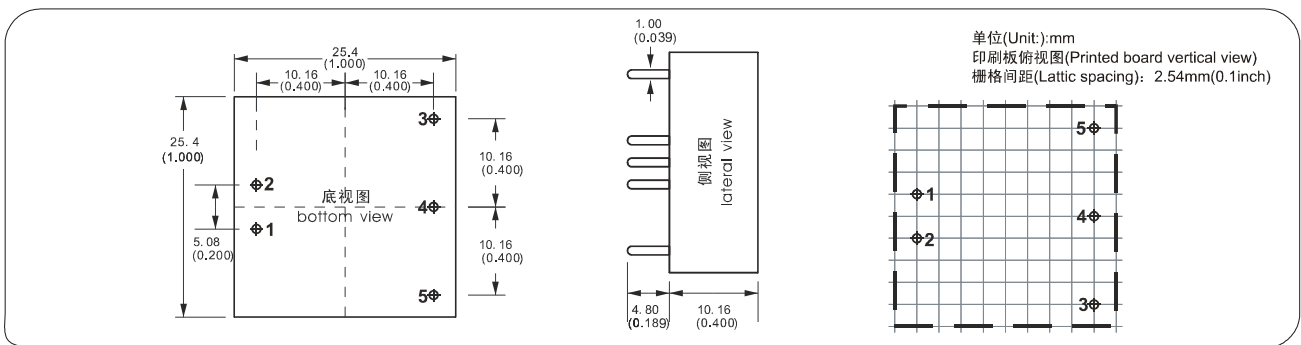
型号 TYPE	输入电压范围 Input voltage range	输出电压/电流 (Output voltage / current)						
		VO1		VO2		VO3		
		V	mA	V	mA	V	mA	
WD3-□S3V3A1	5V (4.5~9V) 12V (9~18V) 24V (18~36V) 48V (36~72V) 110V (72~144V)	3.3V	600mA					
WD3-□S05A1		5V	600mA					
WD3-□S09A1		9V	330mA					
WD3-□S12A1		12V	250mA					
WD3-□S15A1		15V	200mA					
WD3-□S24A1		24V	125mA					
WD5-□S3V3A1		3.3V	1000mA					
WD5-□S05A1		5V	1000mA					
WD5-□S09A1		9V	550mA					
WD5-□S12A1		12V	410mA					
WD5-□S15A1		15V	330mA					
WD5-□S24A1		24V	210mA					
WD3-□D3V3A1			+3.3V	300 mA	-3.3V	300 mA		
WD3-□D05A1			+5V	300 mA	-5V	300 mA		
WD3-□D09A1			+9V	165 mA	-9V	165 mA		
WD3-□D12A1			+12V	125 mA	-12V	125 mA		
WD3-□D15A1		+15V	100 mA	-15V	100 mA			
WD3-□D24A1		+24V	60 mA	-24V	60 mA			

WD5-□D3V3A1		+3.3V	500 mA	-3.3V	500 mA		
WD5-□D05A1		+5V	500 mA	-5V	500 mA		
WD5-□D09A1		+9V	275 mA	-9V	275 mA		
WD5-□D12A1		+12V	205 mA	-12V	205 mA		
WD5-□D15A1		+15V	165 mA	-15V	165 mA		
WD5-□D24A1		+24V	100 mA	-24V	100 mA		

注：□ 代表输入电压标称值，因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部联系。

□ 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.

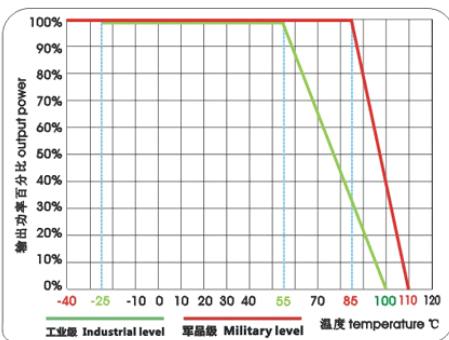
封装尺寸图 Mechanical Data



封装尺寸 Mechanical Data

封装代号	L x W x H	
A1	25.40 × 25.40 × 10.16mm	1.000 × 1.000 × 0.400 inch

温度曲线图 Temperature graph



管脚定义 Pin Assignments

单路(S)	1	2	3	4	5
	-Vin	+Vin	+Vout1	NP	GND
双路(D)	1	1	3	4	5
	-Vin	+Vin	+Vout1	COM	-Vout2

*注意：电源模块的各管脚定义如与选型手册不符，应以实物标签上的标注为准。

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