

**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/塑料外壳, 输出波纹低 Metal / Plastic 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 °C, 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	9	12	18	2:1
	18	24	36	2:1
	36	48	72	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 change	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	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	-30°C ~ +71°C
		军品级 Military Level	-40°C ~ +85°C

储存温度 Storage temperature	工业级 Industrial Level	-50℃ ~ +115℃
	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(E1) / 塑料壳(E2) Meta / Plasticl case	
隔离电压 Isolation Voltage	输入与输出 Input-output 1500 Vdc ≤ 0.5mA/1min; 输入与外壳 Input-case 500Vdc ≤ 0.5mA / 1min	
最小无故障间隔时间(MTBF)	2X10 <sup>5</sup> Hrs	

### 典型产品列表 Typical product tabulates

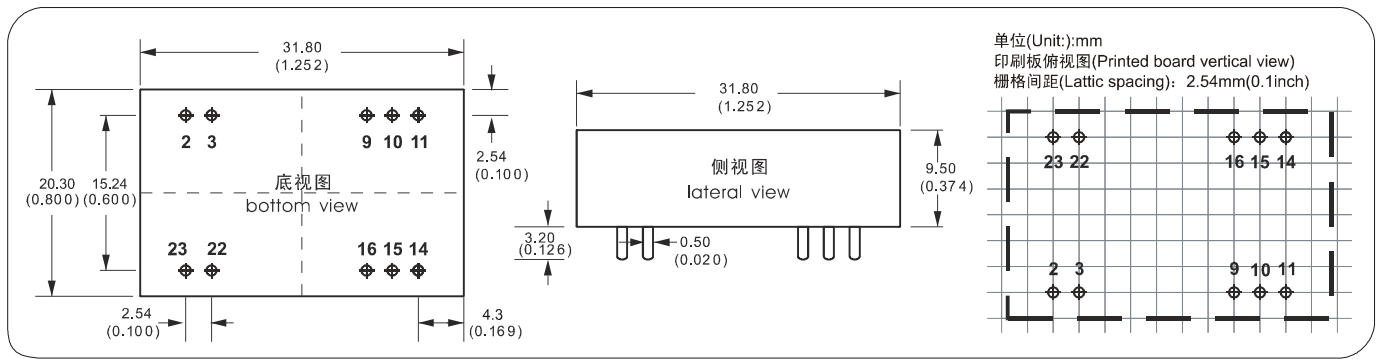
型号 TYPE	输入电压范围 Input voltage range	输出电压/电流 (Output voltage / current)					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WD3-□S05E2/E7	12 V (9~18V) 24V (18~36V) 48V (36~72V)	5V	600mA				
WD3-□S12 E2/E7		12V	250mA				
WD3-□S24 E2/E7		24V	125mA				
WD5-□S05 E2/E7		5V	1000mA				
WD5-□S12 E2/E7		12V	410mA				
WD5-□S15 E2/E7		15V	330mA				
WD5-□S24 E2/E7		24V	210mA				
WD6-□S05 E2/E7		5V	1200mA				
WD6-□S12 E2/E7		12V	500mA				
WD6-□S15 E2/E7		15V	400mA				
WD6-□S24 E2/E7		24V	250mA				
WD3-□D05 E2/E7		+5V	300 mA	-5V	300 mA		
WD3-□D12 E2/E7		+12V	125 mA	-12V	125 mA		
WD3-□D15 E2/E7		+15V	100 mA	-15V	100 mA		
WD3-□D24 E2/E7		+24V	60 mA	-24V	60 mA		
WD5-□D05 E2/E7		+5V	500 mA	-5V	500 mA		
WD5-□D12 E2/E7		+12V	205 mA	-12V	205 mA		
WD5-□D15 E2/E7		+15V	165 mA	-15V	165 mA		
WD5-□D24 E2/E7		+24V	100 mA	-24V	100 mA		
WD6-□D05 E2/E7		+5V	600 mA	-5V	600 mA		
WD6-□D12 E2/E7	+12V	250 mA	-12V	250 mA			

WD6-□D15 E2/E7	+15V	200 mA	-15V	200 mA		
WD6-□D24 E2/E7	+24V	125 mA	-24V	125 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.

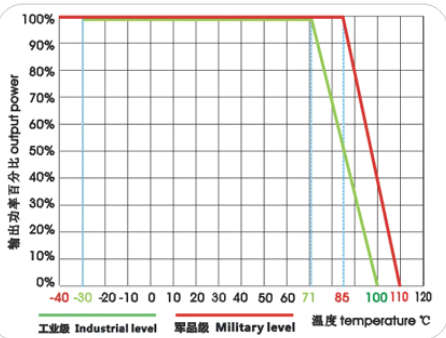
### 封装尺寸图 Mechanical Data



### 封装尺寸 Mechanical Data

封装代号	L x W x H	
E2/E7	31.80 × 20.30 × 10.00mm	1.252 × 0.800 × 0.374inch

### 温度曲线图 Temperature graph



### 管脚定义 Pin Assignments

单路(S)	2	3	9	10	11	14	15	16	22	23
	-Vin	-Vin	NC	NP	NC	+Vout	NP	GND	+Vin	+Vin
双路(D)	2	3	9	10	11	14	15	16	22	23
	-Vin	-Vin	COM	NP	-Vo2	+Vo1	NP	COM	+Vin	+Vin
双路隔离(DI)	2	3	9	10	11	14	15	16	22	23
	-Vin	-Vin	GND2	NP	+Vo2	+Vo1	NP	GND1	+Vin	+Vin

\*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.