

典型性能 Typical performance

- ◆ 窄范围输入 Narrow Range Input
- ◆ 转换效率 Typical Efficiency (典型 60%)
- ◆ 开关频率 Switching frequency: 50 ~ 100 KHz
- ◆ 无短路保护 No Short-Circuit Protection
- ◆ 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°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	4.75	5	5.25	±5%
	5.70	6	6.30	±5%
	11.40	12	12.60	±5%
	14.25	15	15.75	±5%
	22.80	24	25.20	±5%
	45.60	48	50.40	±5%
遥控端 Remote ON/OFF	无遥控端 Non			

输出特性 Output

输出电压精度 Voltage accuracy		Vo1,Vo2	±3.0%
源效应 Line regulation	标称负载, 全电压范围 Nominal Load, full voltage range	Vo1,Vo2	±1.0%
负载效应 Load regulation	20% ~ 100% 额定负载	Vo1,Vo2	±1.0%
纹波及噪声 Ripple and noise	20MHz BM 满载	Vo ≤ 50mVp-p	
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	Vo ≤ 5.0V, 50% 典型 Typical	Vo > 5.0V, 60% 典型 Typical
开关频率 Switching frequency		50~100KHz 典型	最大 120KHz
工作温度 Operating temperature		自由空气对流 Free air	-25℃ ~ +65℃
储存温度 Storage temperature			-40℃ ~ +120℃
最大壳温 Max case temperature			+90℃
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 \leq 0.5mA/1min; 输入与外壳 Input-case 500Vdc \leq 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

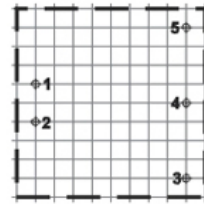
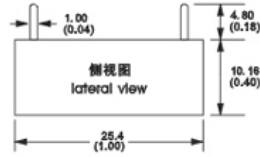
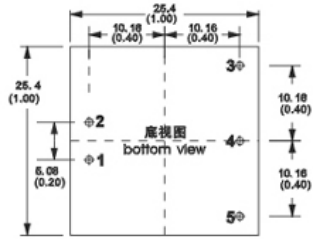
典型产品列表 Typical product tabulates

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
ND1-□S05A	5V (4.75~5.25V) 6V (5.70~6.30V) 12V (11.40~12.60V) 15V (14.25~15.75V) 24V (22.80~25.20V) 48V (45.60~50.40V)	5V	100mA				
ND1-□S12A		12V	100mA				
ND1-□S15A		15V	100mA				
ND1-□S24A		24V	50mA				
ND3-□S05A		5V	200mA				
ND3-□S12A		12V	200mA				
ND3-□S05B		5V	500mA				
ND3-□S12B		12V	250mA				
ND3-□S15B/A		15V	200mA				
ND3-□S24B/A		24V	125mA				
ND1-□D05A		+5V	100 mA	-5V	100 mA		
ND1-□D12A		+12V	50 mA	-12V	50 mA		
ND1-□D15A		+15V	50 mA	-15V	50 mA		
ND1-□D24A		+24V	20 mA	-24V	20 mA		
ND3-□D05B		+5V	200 mA	-5V	200 mA		
ND3-□D012B/A		+12V	100 mA	-12V	100 mA		
ND3-□D15B/A		+15V	100 mA	-15V	100 mA		
ND3-□D24B/A		+24V	60 mA	-24V	60 mA		

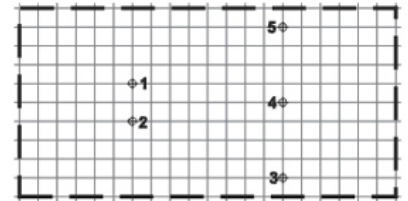
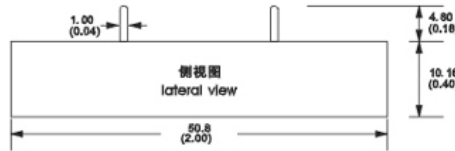
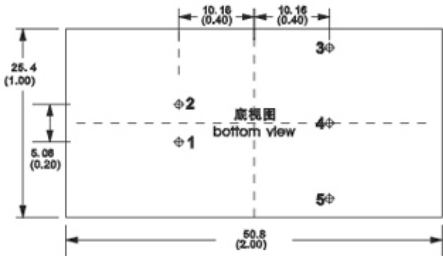
注: □ 代表输入电压标称值, 因篇幅有限, 以上只是部分产品列表, 若需列表以外产品, 请与本公司销售部联系。

□ 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



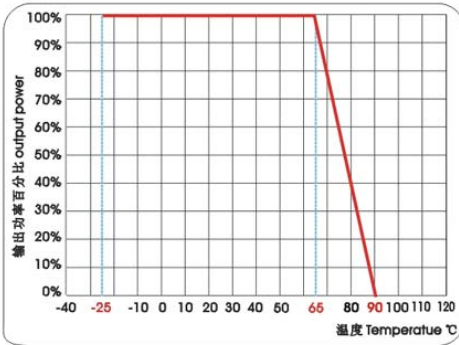
单位:mm
印刷板俯视图
栅格间距: 2.54mm(0.1inch)



封装尺寸 Mechanical Data

封装代号	L x W x H	
A	25.40 × 25.40 × 10.16mm	1.00 × 1.00 × 0.40inch
B	50.80 × 25.40 × 10.16mm	2.00 × 1.00 × 0.40inch

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.