

VD10-16 Series



10-16W功率输出 (10-16 Watts of Output Power)

宽电压输入 (2:1/4:1 Wide Input Range)

输入输出隔离 (Isolated Output)

长期短路保护, 自恢复 (Short Circuit Protection, Automatic Recovery)

小型化封装 (Small Package)

三年质保 (3 Years Warranty)

输入特性 Input	Min	Nom	Max	Notes
输入电压 Vdc	9	12	18	
Input Voltage	18	24	36	
	36	48	72	
	66	110	160	

输出特性 Output			
输出电压精度		±1%	Vo1
Set Point Accuracy		±3%	Vo2
源效应		±0.2%	
Line Regulation			
负载效应		±0.5%	
Load Regulation			
动态响应		3%Vo Pk deviation	50-75% load
Dynamic Response		200µ S settling time	50-25% load
纹波与噪声		50mVp-p	Vo ≤ 5Vdc
Ripple and Noise		200mVp-p	Vo ≥ 48Vdc
		100mVp-p	Other
温度系数		±0.02% °C	
Temperature			

综合特性 General			
隔离电压	1500Vdc		Input-Output
Isolation Voltage	500Vdc		Input-Case
	500Vdc		Output-Case
开关频率		300KHz	
Switching Frequency			
效率 Efficiency		84%	type
手工焊接时间			5s
Hand Soldering Time			
MTBF		2x10 ⁵ h	Bellcore TR332, 25°C
工作壳温	-25°C		+90°C
Case Temperature	-45°C		+105°C
			军品级 Military Grade
储存温度			
Storage Temperature	-55°C		+125°C
相对湿度			
Relative Humidity	10%		90%

短路保护 Short-Circuit Protection Continuous Automatic Recovery

功率 Power	型号 Model	输入电压 Input Voltage	输出电压 Output Voltage	输出电流 Output Current
单路输出 /Single Versions				
		Vdc	Vdc	A
10W	VD10-12S3V3	`9-18	3.3	3
	VD10-12S05	`9-18	5.05	2
	VD10-12S12	`9-18	12	0.84
	VD10-12S15	`9-18	15	0.67
	VD10-12S24	`9-18	24	0.42
	VD10-24S3V3	18-36	3.3	3
	VD10-24S05	18-36	5.05	2
	VD10-24S12	18-36	12	0.84
	VD10-24S15	18-36	15	0.67
	VD10-24S24	18-36	24	0.42
	VD10-48S3V3	36-72	3.3	3
	VD10-48S05	36-72	5.05	2
	VD10-48S12	36-72	12	0.84
	VD10-48S15	36-72	15	0.67
	VD10-48S24	36-72	24	0.42
	VD10-48S48	36-72	48	0.21
	VD10-110S05	66-160	5.05	2
	VD10-110S12	66-160	12	0.84
	VD10-110S15	66-160	15	0.67
	VD10-110S24	66-160	24	0.42
12W	VD12-12S3V3	`9-18	3.3	3.6
	VD12-12S05	`9-18	5.05	2.4
	VD12-12S12	`9-18	12	1
	VD12-12S15	`9-18	15	0.8
	VD12-12S24	`9-18	24	0.5
	VD12-24S3V3	18-36	3.3	3.6
	VD12-24S05	18-36	5.05	2.4
	VD12-24S12	18-36	12	1
	VD12-24S15	18-36	15	0.8
	VD12-24S24	18-36	24	0.5
	VD12-48S3V3	36-72	3.3	3.6
	VD12-48S05	36-72	5.05	2.4
	VD12-48S12	36-72	12	1
	VD12-48S15	36-72	15	0.8
	VD12-48S24	36-72	24	0.5
	VD12-110S05	66-160	5.05	2.4
	VD12-110S12	66-160	12	1
	VD12-110S15	66-160	15	0.8
	VD12-110S24	66-160	24	0.5
	16W	VD16-24S3V3	18-36	3.3
VD16-24S05		18-36	5.05	3
VD16-24S12		18-36	12	1.25
VD16-24S15		18-36	15	1
VD16-48S3V3		36-72	3.3	3.5
VD16-48S05		36-72	5.05	3
VD16-48S12		36-72	12	1.25
VD16-48S15		36-72	15	1
VD16-110S05		66-160	5.05	3.5

VD16-110S12	66-160	12	3
VD16-110S15	66-160	15	1.25
VD16-110S24	66-160	24	1

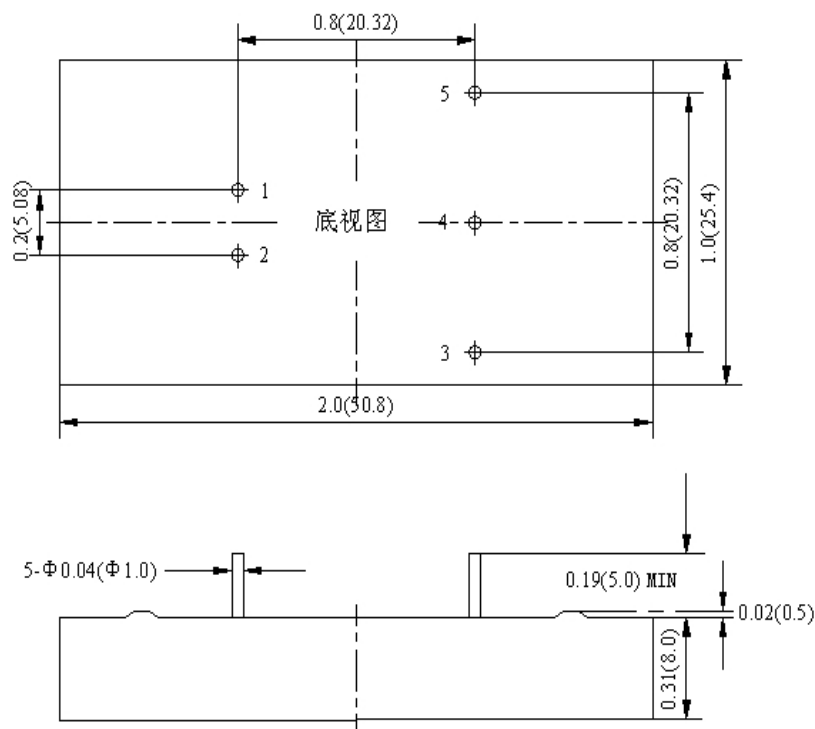
双路输出 /Dual Versions		Vdc	Vdc	A
10W	VD10-12D05	`9-18`	`+5.05`/-5.05	`+1`/-1
	VD10-12D12	`9-18`	`+12`/-12	`+0.42`/-0.42
	VD10-12D15	`9-18`	`+15`/-15	`+0.33`/-0.33
	VD10-24D05	18-36	`5.05`/-5.05	`+1`/-1
	VD10-24D12	18-36	`+12`/-12	+0.42 /-0.42
	VD10-24D15	18-36	`+15`/-15	`+0.33`/-0.33
	VD10-48D05-05	36-72	`+5.05`/-5.05	`+1.6`/-0.2
	VD10-48D05	36-72	`+5.05`/-5.05	`+1`/-1
	VD10-48D12	36-72	`+12`/-12	+0.42 /-0.42
	VD10-48D15	36-72	`+15`/-15	+0.33 /-0.33

12W	VD12-24D05-05	18-36	`+5.05`/-5.05	`+2`/-0.4
	VD12-24D05	18-36	`+5.05`/-5.05	`+1.2`/-1.2
	VD12-24D12	18-36	`+12`/-12	`+0.5`/-0.5
	VD12-24D15	18-36	`+15`/-15	`+0.4`/-0.4
	VD12-48D05-05	36-72	`+5.05`/-5.05	`2`/-0.4
	VD12-48D05	36-72	`+5.05`/-5.05	`+1.2`/-1.2
	VD12-48D12	36-72	`+12`/-12	`+0.5`/-0.5
	VD12-48D15	36-72	`+15`/-15	`+0.4`/-0.4

16W	VD16-24D12	18-36	`+12`/-12	`+0.6`/-0.6
	VD16-24D15	18-36	`+15`/-15	`+0.5`/-0.5
	VD16-48D12	36-72	`+12`/-12	`+0.6`/-0.6
	VD16-48D15	36-72	`+15`/-15	`+0.5`/-0.5
	VD16-110D12	66-160	`+12`-12	`+0.6`/-0.6
	VD16-110D15	66-160	`+15`/-15	`0.5`/-0.5

机械图及管脚说明 /Mechanical Chart, Pins

Unit:inch (mm)



管脚定义 PIN	1	2	3	4	5
单路 Single	`+Vin	-Vin	-Vo	NP	+Vo
双路 Dual	`+Vin	-Vin	Vo2	COM	Vo1