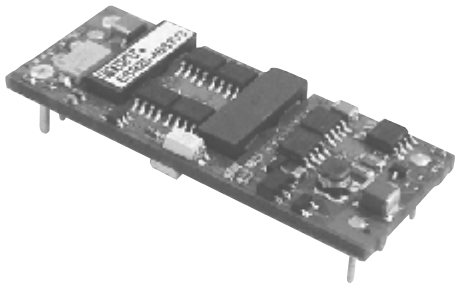
ESR15/20 27~66W Series



特 点

* 外形尺寸: 57.9 × 22.8 × 9.6 mm
* 工业标准八分之一砖外形和引脚
* 工作温度范围宽(-40℃~ +85℃)
* 高效率、高功率密度

Features

* Size: 2.28 × 0.90 × 0.38 inch
* Industry standard Eight-Brick Footprint & Pin-out
* Wide Operation Temperature Range (-40℃~ +85℃)
* High Efficiency, High Power Density

输入特性(Input)

			注释(Notes and Conditions)
输入电压范围(Input Voltage Range)			
标称(Nominal)	48Vdc	36~72Vdc	80Vdc Max (100ms)
输入欠压保护（Input Undervoltage Protection)		31~35Vdc	
遥控功能(Remote On/Off Function)			
1)正逻辑(Positive Logic) 开启(On)	高电平(3.5~18V)或悬空		相对于 -Vin (Refernce to -Vin)
	(High Level (3.5~18V) or Open Circuit)		
关闭(Off)	低电平(0~1.0V)或与 -Vin 短接		
	(Low Level (0~1.0V) or Connect to -Vin)		
2)负逻辑(Negative Logic) 开启(On)	低电平或与 -Vin 短接		相对于 -Vin (Refernce to -Vin)
	(Low Level or Connect to -Vin)		型号后加后缀 “-L”
关闭(Off)	高电平或悬空		(Adding the Suffix“-L” to the Model Number)
	(High Level or Open Circuit)		

输出特性(Output)

		注释(Notes and Conditions)
输出电压精度(Voltage Set-Point Accuracy)	± 1%	Vinom and Ionom
输出电压调节范围(Output Voltage Trim Range)	-20~+10%Vo	Vinom
源效应(Line Regulation)	± 0.2%Vo	Vimin~Vimax, Ionom
负载效应(Load Regulation)	± 0.5%Vo	0~100%Ionom , Vinom
输出过压保护(Output Overvoltage Protection)	115%~140%Vo	Self Recovering
输出过流保护点(Current Limit Threshold Range)	110%~150%Ionom	Vinom
短路保护 (Short-Circuit portection)	间歇,可恢复(Hiccup,Automatic Recovery)	
瞬态响应(Dynamic Response)		
过冲幅度(Peak Deviation)	± 5%Vo	25%-50%-25% of Ionom,Vin=Vinom
恢复时间(Settling Time)	≤ 200 μs	and 50%-75%-50% of Ionom,Vin=Vinom

一般特性(General)

		注释(Notes and Conditions)
温度系数(Temperature Coefficient)	± 0.02%/℃	
隔离电压（Isolation Voltage)		
输入与输出（Input-Output）	1500Vdc,1min	Leakage Current:10mA
绝缘电阻 (Isolation Resistance)	＞50M Ω	
工作环境温度(Operating Ambient Temperature)	-40℃~+85℃	
贮存温度(Storage Temperature)	-55℃~+125℃	
过温保护(Thermal Shutdown Range)	115℃ ± 10℃	
冷却方式(Cooling)	强制风冷(Forced Convection)	
平均故障间隔时间(MTBF)	5 × 10^5h	MIL-HDBK-217

注：除非另有说明，指标一般在标称输入电压、满载和环境温度 25℃,风速为 1m/s(200ft/min)下测得。
Note：All specifications are typical at nominal input ,full load atTa= 25℃,airflow rates of 1m/s (200ft/min) unless otherwise stated.

型号列表(Models)

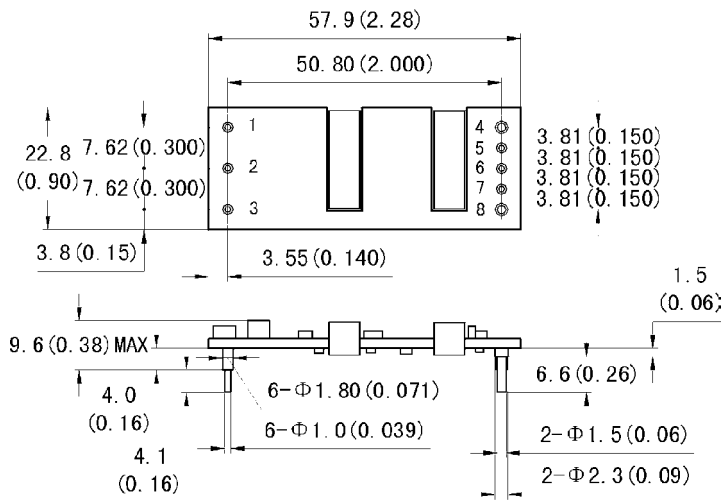
产品型号 (Model Number)	标称输入电压 (Input Voltage) Vdc	标称输出电压 (Output Voltage) Vdc	标称负载 (Output Current) A	额定输出功率 (Output Power) W	效率 (Efficiency) %	输出杂音电压峰峰值 (Ripple and Noise) mVp-p
ESR15-48S1V8	48	1.8	15.00	27	87	60
ESR20-48S1V8	48	1.8	20.00	36	87	60
ESR15-48S2V5	48	2.5	15.00	37.5	88	60
ESR20-48S2V5	48	2.5	20.00	50	88	60
ESR15-48S3V3	48	3.3	15.00	49.5	89	75
ESR20-48S3V3	48	3.3	20.00	66	89	75

注：列表中产品型号为正逻辑遥控功能，负逻辑功能产品在型号后加后缀“-L”。如ESR20-48S3V3-L是负逻辑遥控功能。
Note: The Remote on/off Function of above Model Number is Positive Logic.Model with Negative Logic must add the Suffix “-L” to the Model Number.For example,ESR20-483V3-L features Remote on/off Negative Logic.

安装尺寸(Mechanical Drawing)

尺寸单位是mm(inches); All Dimensions in mm (inches)

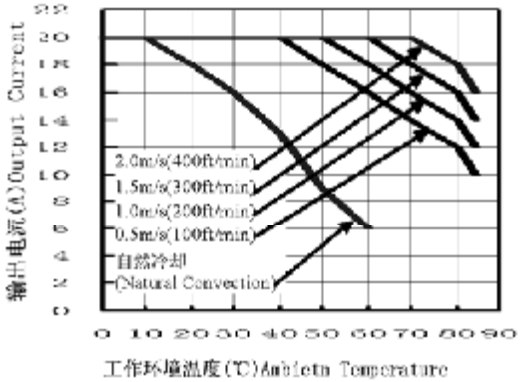
底视图(Bottom View)



引脚定义(Pin Definition)	
引脚(Pin)	单路(Single)
1	-Vin
2	Rem
3	+Vin
4	-Vout
5	-S
6	Trim
7	+S
8	+Vout

未注公差按下表 (Tolerances Unless Otherwise Specified)	
mm	inches
.x ±0.5	.xx ±0.02
.xx ±0.13	.xxx ±0.005

Vin=48V 温度降额曲线(Vin=48V Temperature Derating Curve)



输出电压调节(Output Voltage Trim)