HSR-50~150W Series

特 点

* 外形尺寸：61.0 × 57.9 × 12.7 mm
* 工业标准半砖封装和引脚
* 高效率、高功率密度
* 基板工作温度 100℃

Features

* Size: 2.40 × 2.28 × 0.50 inch
* Industry Standard Half-Brick Package and Footprint
* High Efficiency,High Power Density
* 100℃ Baseplate Operation

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
标称(Nominal)	24Vdc	18~36Vdc	40Vdc Max
输入欠压保护(Input Undervoltage Protection)		<36Vdc(IN:48Vdc);<18Vdc(IN:24Vdc)	
遥控功能(Remote On/Off Function)			
1)正逻辑(Positive Logic)	开启(On)	高电平(2.5～18Vdc)或悬空	相对于 -Vin(Reference to -Vin)
		(High Level or Open Circuit)	
	关闭(Off)	低电平(<1.4Vdc)或与 -Vin 短接	
		(Low Level or Connect to -Vin)	
2)负逻辑(Negative Logic)	开启(On)	低电平(<0.4Vdc)或与 -Vin 短接	相对于 -Vin(Reference to -Vin)
		(Low Level or Connect to -Vin)	型号后加后缀 “-L”
	关闭(Off)	高电平(1.4～18Vdc)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)	± 10%	
源效应(Line Regulation)	± 0.2%Vo	Vimin~Vimax , Ionom
负载效应(Load Regulation)	± 0.5%Vo	10%~100%Ionom,Vinom
输出过压保护(Output Overvoltage Protection)	120%~140%Vo	Self Recovering
输出过流保护点(Current Limit Threshold Range)	110%~150%Io	
短路保护(Short-Circuit Protection)	连续可恢复	
	(Continuous, Automatic Recovery)	
瞬态响应(Dynamic Response)		
过冲幅度(Peak Deviation)	± 5%Vo	25%-50%-25% of Ionom
恢复时间(Settling Time)	200 μ s	and 50%-75%-50% of Ionom

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)	1000Vdc 1min	
输入与外壳(Input-Case)	700Vdc 1min	
输出与外壳(Output-Case)	500Vdc 1min	
工作基板温度(Operating Baseplate Temperature)	- 25℃~+ 100℃	
贮存温度(Storage Temperature)	- 40℃~+ 125℃	
冷却方式(Cooling)	加装散热器或强制风冷	Attach Heatsink or Forced Convection
过温保护(Thermal Shutdown Range)	100℃~110℃	基板温度(Baseplate Temperature)
平均故障间隔时间(MTBF)	2 × 10^5h	MIL-HDBK-217
重量(Weight)	80g	

注：除非另有说明，指标一般在标称输入电压、满载和 25℃基板温度下测得。

Note: All specifications are typical at nominal input ,full load at 25℃ baseplate temperature unless otherwise stated.

型号列表(Models)

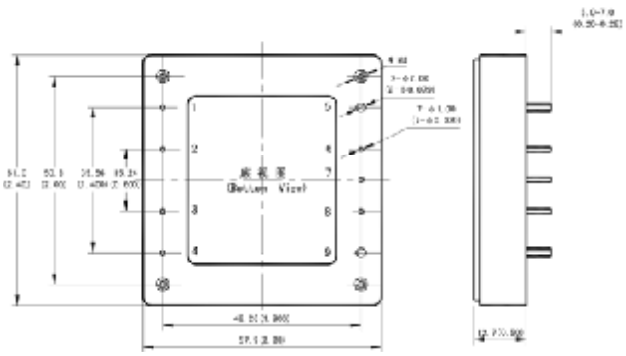
产品型号 (Model Number)	标称输入电压 (Input Voltage) Vdc	标称输出电压 (Output Voltage) Vdc	标称负载 (Output Current) A	额定输出功率 (Output Power) W	效率 (Efficiency) %	输出杂音电压峰峰值 (Ripple and Noise) mVp-p
HSR-050BSC	48	2.5	20	50	84	100
HSR-033ASC	48	3.3	10	33	88	100
HSR-050ASC	48	3.3	15	50	88	100
HSR-066ASC	48	3.3	20	66	87	100
HSR-066ASC-T	48	3.3	20	66	87	100
HSR-075ASC	48	3.3	23	75.9	85	100
HSR-100ASC	48	3.3	30	100	85	100
HSR-100ASC-T	48	3.3	30	100	85	100
HSR-0501SC	48	5.0	10	50	89	100
HSR-0751SC	48	5.0	15	75	88	100
HSR-1001SC	48	5.0	20	100	88	100
HSR-1001SC-T	48	5.0	20	100	88	100
HSR-1501SC	48	5.0	30	150	86	100
HSR-1501SC-T	48	5.0	30	150	86	100
HSR-066ASB	24	3.3	20	66	86	100
HSR-100ASB	24	3.3	30	100	86	100
HSR-0501SB	24	5.0	10	50	88	100
HSR-1001SB	24	5.0	20	100	88	100

注: 型号中有后缀“-T”的产品其输出电压调节方式不同。负逻辑遥控功能的产品在定货时须在型号中加“L”。如HSR-100ASC-T为正逻辑遥控功能，要定负逻辑遥控功能的产品型号为HSR-L100ASC-T。

(Model Numbers with suffix '-T' have different output voltage adjustment. The standard product features Remote on/off Positive Logic,the Negative Logic is optional by adding the big letter 'L' to the model number,for example,HSR-L100ASC-T model number indicates Negative Logic,but HSR-100ASC-T indicates Positive Logic.)

安装尺寸(Mechanical Drawing)

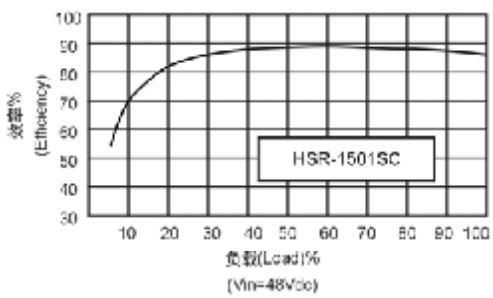
尺寸单位是mm(inches); All Dimensions in mm (inches)



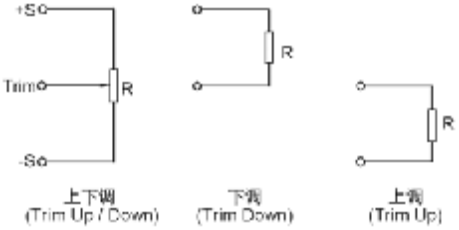
引脚定义(Pin Definition)			
1	-Vin	6	-S
2	F G	7	Trim
3	Rem	8	+S
4	+Vin	9	+Vout
5	-Vout		

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

效率负载曲线(Curve of Efficiency vs. Load)



输出电压调节(Output Voltage Trim)



上下调 (Trim Up / Down)　下调 (Trim Down)　上调 (Trim Up)

带“-T”(with “-T”)　上下调 (Trim Up/Down)　上调 (Trim Up)　下调 (Trim Down)