

特 点

- * 外形尺寸: 56.39 × 36.83 × 11.0 mm
- * 工业标准四分之一砖封装和引脚
- * 高效率、高功率密度
- * 工作温度范围宽(-40℃~+85℃)

Features

- * Size: 2.22 × 1.45 × 0.43 inch
- * Industry Standard Quarter-Brick Package and Footprint
- * High Efficiency, High Power Density
- * Wide Operation Temperature Range (-40℃~+85℃)

输入特性(Input)

注释(Notes and Conditions)

输入电压范围(Input Voltage Range)	48Vdc	36~72Vdc	80Vdc Max
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 ~ 18Vdc) 或悬空 (High Level (3 ~ 18Vdc) or Open Circuit)	相对于 -Vin (Reference to -Vin)
	关闭(Off)	低电平 (0~1.0Vdc) 或与 -Vin 短接 (Low Level (0~1.0Vdc) or Connect to -Vin)	
2) 负逻辑(Negative Logic)	开启(On)	低电平 (0~1.0Vdc) 或与 -Vin 短接 (Low Level (0~1.0Vdc) or Connect to -Vin)	相对于 -Vin (Reference to -Vin)
	关闭(Off)	高电平 (3 ~ 18Vdc) 或悬空 (High Level (3 ~ 18Vdc) or Open Circuit)	

输出特性(Output)

注释(Notes and Conditions)

输出电压精度(Voltage Set-Point Accuracy)	Vo1 : ± 1% Vo2 : ± 2%	Vinnom and Ionom
输出电压调节范围(Output Voltage Trim Range)	Vo2 : ± 10%Vo2	第二路可调节(Only Vo2)
源效应(Line Regulation)	Vo1 : ± 0.2%Vo1 Vo2 : ± 0.5%Vo2	Vinmin~Vinmax, Ionom
负载效应(Load regulation)	Vo1 : ± 0.5%Vo1 Vo2 : ± 0.5%Vo2	0~100%Ionom, Vinom
输出过压保护(Output Overvoltage Protection)	120%~150%Vo1,2	Automatic Recovering
输出过流保护点(Current Limit Threshold)	≥ 105%Io	
短路保护(Short-Circuit Protection)	间歇, 连续可恢复(Hiccup, Automatic Recovery)	
瞬态响应(Dynamic Response)		
过冲幅度(Peak Deviation)	± 5%Vo1,2	25%-50%-25% of Ionom
恢复时间(Settling Time)	100 μs	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)	1500Vdc 1min	≤ 5mA (Leakage Current)
工作环境温度(Operating Ambient Temperature) ¹	-40℃~+85℃	
基板温度(Baseplate Temperature)	-40℃~+100℃	
贮存温度(Storage Temperature)	-40℃~+125℃	
冷却方式(Cooling)	自然冷却(Natural Convection)	或强制风冷(or Forced convection)
过温保护(Thermal Shutdown Range)	105~120℃	
平均故障间隔时间(MTBF)	2 × 10 ⁵ h	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 at Ta= 25℃, airflow rates of 1m/s (200ft/min) unless otherwise stated.

1. 参见降额曲线图 (Reference to Derating Curve)

QSR15/20 42~48W Series

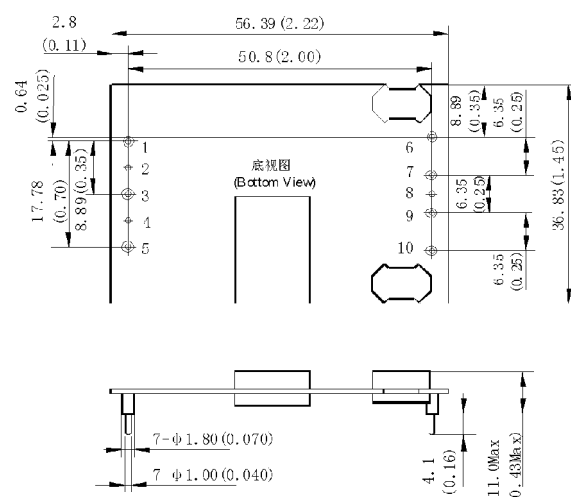


型号列表 (Models)

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	最大输出功率 (Output Power) W	效率 (Efficiency) %	输出杂音电压峰峰值 (Ripple and Noise) mVp-p
QSR20-48D3V31V0	48	3.33/1.03	9/12	42	82	50
QSR20-48D3V31V0-L	48	3.33/1.03	9/12	42	82	50
QSR20-48D3V31V2	48	3.33/1.23	9/12	44	83	50
QSR20-48D3V31V2-L	48	3.33/1.23	9/12	44	83	50
QSR20-48D3V31V5	48	3.33/1.53	9/12	48	85	50
QSR20-48D3V31V5-L	48	3.33/1.53	9/12	48	85	50
QSR15-48D3V32V5	48	3.33/2.5	6/9	42	85	50
QSR15-48D3V32V5-L	48	3.33/2.5	6/9	42	85	50

注: 1. "-L" 型号遥控功能为负逻辑。(Model with "-L" is Negative Logic.)

安装尺寸 (Mechanical Drawing)



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

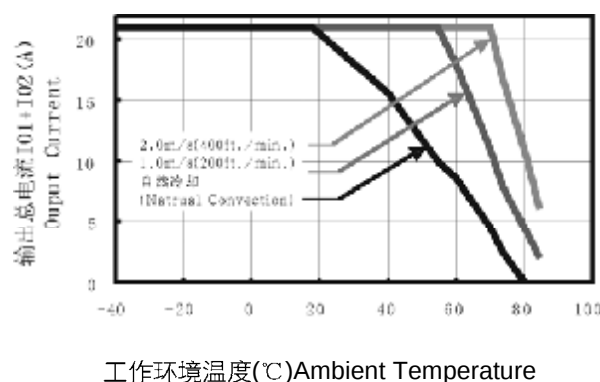
引脚定义 (Pin Definition)

引脚(Pin)	单路(Single)
1	-Vin
2	NP
3	Rem
4	NP
5	+Vin
6	+Vout2
7	Com
8	NP
9	Trim2
10	+Vout1

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)

