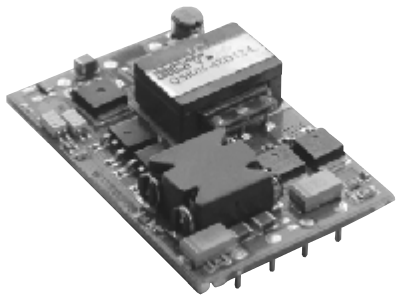
QSR05/12 60W Series



特 点

* 外形尺寸: 56.4 × 36.8 × 12.7 mm
* 工业标准四分之一砖封装和引脚
* 双路输出
* 工作温度范围宽(-40℃-+85℃)

Features

* Size: 2.22 × 1.45 × 0.50 inch
* Industry Standard Quarter-Brick Package and Footprint
* Doal Outputs
* 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)		36~75Vdc	80Vdc Max
输入欠压保护(Input Undervoltage Protection)		＜36Vdc	
遥控功能(Remote On/Off Function)			
1) 正逻辑(Positive Logic)	开启(On)	高电平（3.5～18Vdc）或悬空	相对于 -Vin (Reference to -Vin)
		(High Level（3.5～18Vdc）or Open Circuit)	
	关闭(Off)	低电平（＜0.8Vdc）或与 -Vin 短接	
		(Low Level（＜0.8Vdc） or Connect to -Vin)	
2) 负逻辑(Negative Logic)	开启(On)	低电平（＜0.8Vdc）或与 -Vin 短接	相对于 -Vin (Reference to -Vin)
		(Low Level （＜0.8Vdc）or Connect to -Vin)	
	关闭(Off)	高电平（3.5～18Vdc）或悬空	
		(High Level（3.5～18Vdc）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%	Vinnom and Ionom
	Vo2： ± 1%	
输出电压调节范围(Output Voltage Trim Range)	Vo1： ± 10%	
	Vo2： ± 10%	跟随 Vo1 (Follow Vo1)
源效应(Line Regulation)	Vo1： ± 0.2%Vo1	Io1nom , Io2nom , Vinmin~Vinmax
	Vo2： ± 0.2%Vo2	Io1nom , Io2nom, Vinmin~Vinmax
负载效应(Load regulation)	Vo1： ± 0.5%Vo1	Iomin~Ionom , Vinom , Balance load
	Vo2： ± 0.5%Vo2	Iomin~Ionom , Vinom , Balance load
两路输出过压保护(Dual Outputs Overvoltage Protection)	120%~140%Vo	Po＜Pomax
输出过流保护点(Current Limit Threshold)	105%~150%Io	｜｜Io1｜-｜Io2｜｜〈0.05A
短路保护(Short-Circuit Protection)	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
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)	1500Vdc 1min	≤10mA (Leakage Current)
工作环境温度(Operating Ambient Temperature)[1]	-40℃~+85℃	
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℃	
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.

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

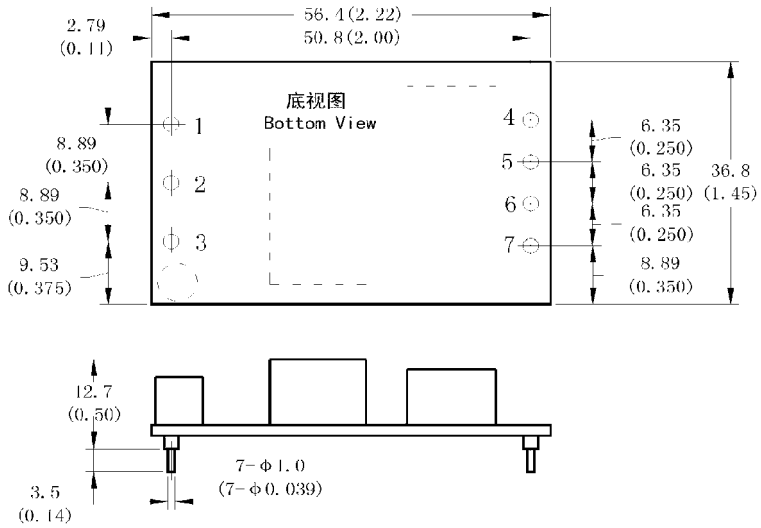
型号列表(Models)

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
QSR12-48D5	48	+5/-5	+6.0/-6.0	60	86	100
QSR12-48D5-L	48	+5/-5	+6.0/-6.0	60	86	100
QSR05-48D12	48	+12/-12	+2.5 /-2.5	60	88	150
QSR05-48D12-L	48	+12/-12	+2.5 /-2.5	60	88	150

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)

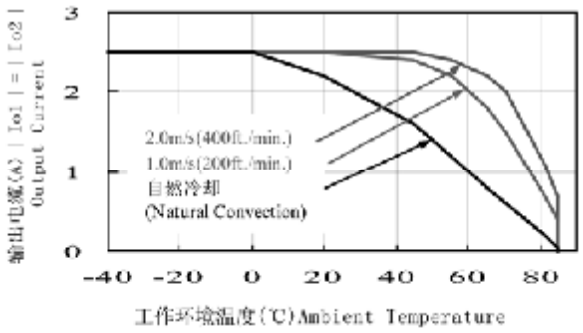
尺寸单位是 mm(inches); All Dimensions in mm (inches)



引脚定义(Pin Definition)	
引脚(Pin)	单路(Single)
1	-Vin
2	REM
3	+Vin
4	Vo2(-Vo)
5	COM
6	TRIM
7	Vo1(+Vo)

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)