

# DC/DC CR,CRF 系列

体积小,可 9-36V(四倍电压输入)

5-12W



## 特性

### Features

- 输入C型滤波 C type input filter
- 体积小,重量轻 Small form factor,low weight
- 高可靠性,长寿命设计 Design for high reliability,long lifetime
- 自然冷却,无须附加散热器 Natural cooling,no heat sink needed
- 输入与输出隔离 Completely isolated between input & output

## 输入特性

### Input Characteristics

电压范围: (Voltage Range)	<b>DC-DC</b> 12V <sub>DC</sub> (Normal)	9-18V <sub>DC</sub>
	18V <sub>DC</sub> (Normal)	9-36V <sub>DC</sub>
	24V <sub>DC</sub> (Normal)	18-36V <sub>DC</sub>
	48V <sub>DC</sub> (Normal)	36-72V <sub>DC</sub>

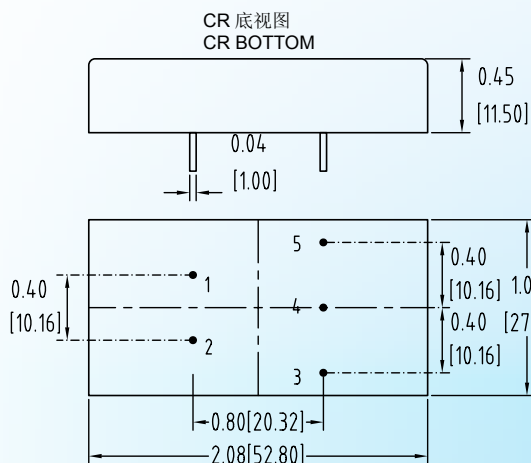
## 输出特性

### Output Characteristics

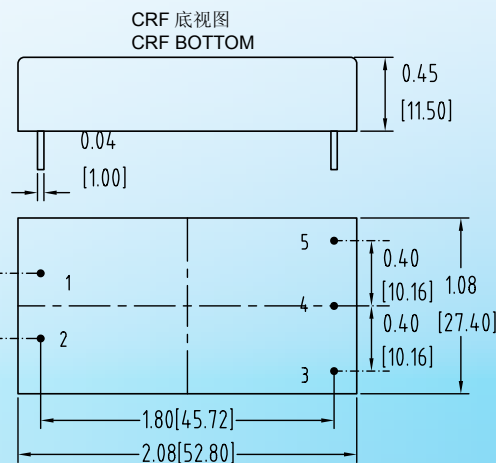
稳压精度: (Regulated Voltage Accuracy)	± 1%
电压调整率: (Line Regulation)	± 0.2%
负载调整率: (Load Regulation)	± 0.5%
温度变化率: (Temperature Coefficient)	± 0.02% /°C
交叉调节率 (Cross Regulation) (主路 30%-100% 负载, 辅路 80% 负载) (Main load 30%-100%, Aux load 80%)	±3%
电流限制点: (Output Current Limiting)	120% (Typ)
瞬态响应: (Transient Response)	400 μs

## 尺寸图

### Dimensioned Drawing



单位尺寸为英寸(毫米)  
ALL DIMENSIONS IN INCHES(MM)



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ALL DIMENSIONS IN INCHES(MM)

引脚 PIN	单路(CR) SING	双路(CRF) DOU
1	+Vin	+Vin
2	-Vin	-Vin
3	-Vo	-Vo
4	NC	GND
5	+Vo	+Vo

## 物理特性

结构尺寸: 52.8\*27.4\*11.5mm  
重量: CR:0.05Kg CRF:0.05Kg

## 一般特性

### General Characteristics

工作频率(典型值): (Switching Frequency)	200 KHz
隔离电阻: (Isolation Resistance)	200 (Typ)MΩ
MTBF:	>500000 hrs

## 绝缘强度 (Insulation Voltage)

输入 - 输出: (Input-Output)	> 1500 V <sub>DC</sub>
输入 - 外壳: (Input-Case)	> 1050 V <sub>DC</sub>
输出 - 外壳: (Output-Case)	> 500 V <sub>DC</sub>

## 环境特性 (Environmental Characteristics)

工作壳温: (Operation Temperature)	工业品 (Industry)	-25~+85°C
	军 I (Military I)	-40~+85°C
	军 II (Military II)	-55~+85°C
存储温度: (Storage Temperature)	工业品 (Industry)	-45~+105°C
	军品 (Military)	-55~+105°C

## 热阻特性

### Thermal Characteristics

冷却方式: (Cooling)	热阻 (Thermal Resistance)
自然风冷: (Breeze of Nature)	12.45°C /W
0.5M/S	10.37°C /W
1M/S	7.73°C /W
1.5M/S	5.63°C /W
2M/S	4.66°C /W

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型号

Models

输入电压 (Vdc) Input Voltage	输入电压 (范围) Input Voltage<Range>	输出电压 (Vdc) Output Voltage	输出电流 (A) Output Current	纹波 pk-pk (mV) Ripple and noise	效率 (Typ) Efficiency	型号 Models
12	9-18	5	1.6	50	82%	CR08-12S05
12	9-18	12	0.67	120	82%	CR08-12S12
12	9-18	24	0.33	200	83%	CR08-12S24
12	9-18	5	2	50	82%	CR10-12S05
12	9-18	12	0.83	120	82%	CR10-12S12
12	9-18	05	2.4	50	82%	CR12-12S05
12	9-18	12	1	120	82%	CR12-12S12
12	9-18	24	0.5	200	83%	CR12-12S24
18	9-36	5	1.6	50	82%	CR08-18S05
18	9-36	12	0.67	120	82%	CR08-18S12
18	9-36	24	0.33	200	83%	CR08-18S24
18	9-36	5	2	50	82%	CR10-18S05
18	9-36	12	0.83	120	82%	CR10-18S12
18	9-36	05	2.4	50	82%	CR12-18S05
18	9-36	12	1	120	82%	CR12-18S12
18	9-36	15	0.8	150	83%	CR12-18S15
18	9-36	24	0.5	200	83%	CR12-18S24
24	18-36	5	1.6	50	82%	CR08-24S05
24	18-36	12	0.67	120	82%	CR08-24S12
24	18-36	15	0.53	150	83%	CR08-24S15
24	18-36	24	0.33	200	83%	CR08-24S24
24	18-36	05	2	50	82%	CR10-24S05
24	18-36	12	0.83	120	82%	CR10-24S12
24	18-36	15	0.67	150	83%	CR10-24S15
24	18-36	24	0.42	200	83%	CR10-24S24
24	18-36	05	2.4	50	82%	CR12-24S05
24	18-36	12	1	120	82%	CR12-24S12
24	18-36	15	0.8	150	83%	CR12-24S15
24	18-36	24	0.5	200	83%	CR12-24S24
48	36-72	05	2	50	82%	CR10-48S05
48	36-72	12	0.83	120	82%	CR10-48S12
48	36-72	15	0.67	150	83%	CR10-48S15
48	36-72	24	0.42	200	83%	CR10-48S24
48	36-72	05	2.4	50	82%	CR12-48S05
48	36-72	12	1	120	82%	CR12-48S12
48	36-72	15	0.8	150	83%	CR12-48S15
48	36-72	24	0.5	200	83%	CR12-48S24
12	9-18	±05	0.8/0.8	50/50	82%	CRF08-12D05
12	9-18	±12	0.33/0.33	120/120	83%	CRF08-12D12
12	9-18	±15	0.27/0.27	150/150	82%	CRF08-12D15
12	9-18	±05	1/1	50/50	83%	CRF10-12D05
12	9-18	±12	0.42/0.42	120/120	82%	CRF10-12D12
12	9-18	±15	0.33/0.33	150/150	83%	CRF10-12D15
24	18-36	±05	0.8/0.8	50/50	82%	CRF08-24D05
24	18-36	±12	0.33/0.33	120/120	83%	CRF08-24D12
24	18-36	±15	0.27/0.27	150/150	82%	CRF08-24D15
24	18-36	±05	1/1	50/50	83%	CRF10-24D05
24	18-36	±12	0.42/0.42	120/120	82%	CRF10-24D12
24	18-36	±15	0.33/0.33	150/150	83%	CRF10-24D15
48	36-72	±12	0.5/0.5	120/120	82%	CRF12-48D12
48	36-72	±15	0.4/0.4	150/150	83%	CRF12-48D15
48	36-72	±12	0.625/0.625	120/120	82%	CRF15-48D12
48	36-72	±15	0.5/0.5	150/150	83%	CRF15-48D15

■ 说明: 仅列出典型型号, 其它型号请确定功率、输入电压及输出电压后, 致电我公司。

Only typical models and listed. If you need other models, please confirm the power, input voltage and output voltage, then phone us.