

CFDHR500 Series

DC-DC module converter



典型性能 FEATURES

- ◆ 工业标准1/2砖 (Industry Standard Half Brick)
- ◆ 宽电压输入 (9-40V Wide Input Range)
- ◆ 高隔离电压 (2250V Input-Output Isolation)
- ◆ 带有遥控和输出调节功能 (Control And Trim Functions)
- ◆ 高效率93% (High Efficiency)

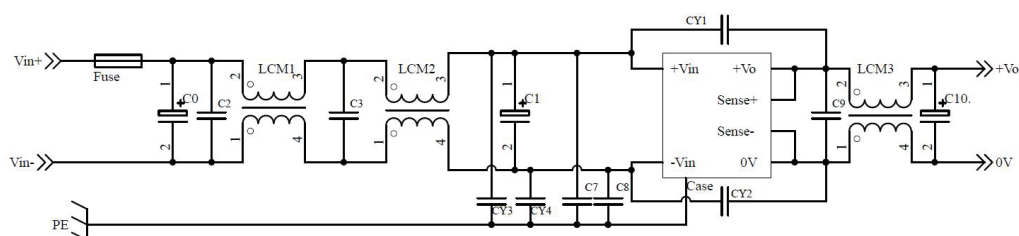
电气特性

ELECTRICAL SPECIFICATIONS

输入特性Input	Min	Nom	Max	Notes
输入电压Vdc	9	24	40	
Input Voltage	16.5	48	74	
遥控		On		CNT悬空或接TTL高电平
Control		Off		CNT与-Vin相连
	尾缀/P	On		CNT与-Vin相连
		Off		CNT悬空或接TTL高电平
输出特性Output				
输出电压精度			±1%	
Setpoint Accuracy				
电压调节			±10%	
Trim Range				
源效应			±0.2%	
Line Regulation				
负载效应			±0.5%	
Load Regulation				
动态响应			3%Vo Pk deviation	50~75% load
Dynamic Response			200μS settling time	50~25% load
纹波与噪声	60mVp-p		120mVp-p	Vo:12Vdc
Ripple and Noise	60mVp-p		280mVp-p	Vo:24/28/54Vdc
温度系数		±0.02%/℃		
Temperature Coefficient				
综合特性General				
隔离电压			2250Vdc/1min/1mA	Input-Output
Isolation Voltage			1500Vdc/1min/1mA	Input-Case
			1500Vdc/1min/1mA	Output- Case
开关频率		250KHz		
Switching Frequency				
MTBF		1×10 ⁶ h		Bellcore TR332,25℃
工作环境温度(满载不降额)	-40℃		+100℃	Industry 工业级
Case Temperature	-40℃		+100℃	Military GS 军品筛选级
	-40℃		+100℃	Military PJ 普军级
	-55℃		+100℃	Military J 军品级
储存温度				
Storage Temperature	-55℃		+125℃	
相对湿度				
Relative Humidity	10%		90%	
短路保护		短路自恢复		
Short-Circuit Protection		Continuous, Automatic Recovery		

型号 Model	输入电压(Vdc) Input Voltage	输出电压(Vdc) Output Voltage	输出电流(A) Output Current	容性负载 CAPACITIVE LOAD	效率 Efficiency
CFDHR500-24S12	9-40	12	42	42000uF	93%
CFDHR500-24S24	9-40	24	21	21000uF	93%
CFDHR500-24S28	9-40	28	18	18000uF	93%
CFDHR500-24S54	9-40	54	9.26	9000uF	93%
CFDHR500-48S12	16.5-74	12	42	42000uF	93%
CFDHR500-48S24	16.5-74	24	21	21000uF	93%
CFDHR500-48S28	16.5-74	28	18	18000uF	93%
CFDHR500-48S54	16.5-74	54	9.26	9000uF	93%

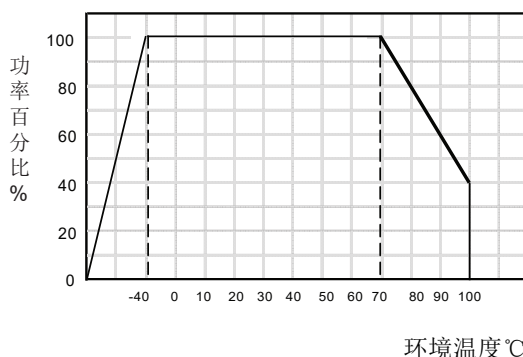
EMC解决方案——推荐电路



参数说明:

器件	器件参数
FUSE	依照客户实际输入电流选择
C0	1000μF/100V
C1	470μF/100V
C2, C3, C9	2.2μF/250V
C7, C8	0.1μF/2000V
C10	220μF/63V
CY1, CY2, CY3, CY4	2.2nF/400VAC
LCM1	100uH/70A
LCM2	1mH/70A
LCM3	4uH/70A

温度/功率降额曲线



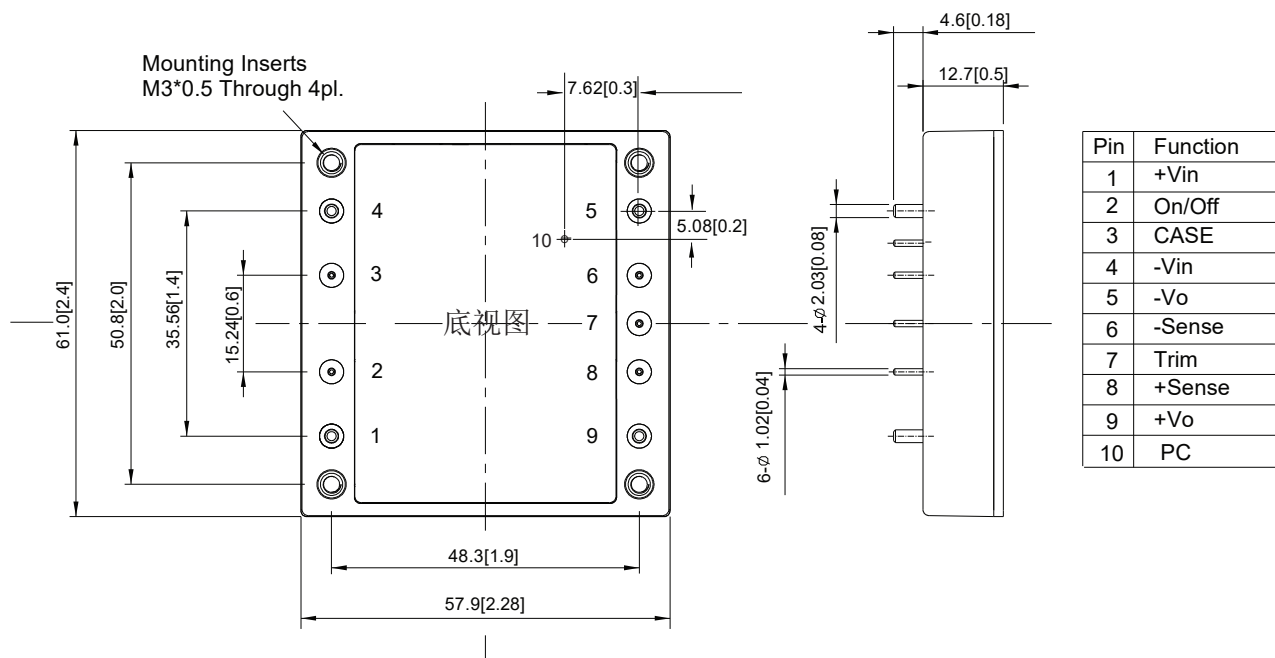
机械图及管脚说明

(MECHANICAL CHART、PINS) (Unit:mm/ inch)

All Dimensions In mm(Inches)

Tolerances Inches:X.XX= ±0.02,X.XXX= ±0.01

Millimeters:X.X= ±0.5,X.XX=±0.25



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