

CFDB10 Series

DC-DC module converter



典型性能 FEATURES

- ◆ 10瓦功率输出 (10Watts of Output Power)
- ◆ 宽电压输入 (4:1 Wide Input)
- ◆ 输入输出隔离 (Isolated Output)
- ◆ 长期短路保护, 自恢复 (Short Circuit Protection, Automatic Recovery)
- ◆ 小型化B系列封装 (Small Package)

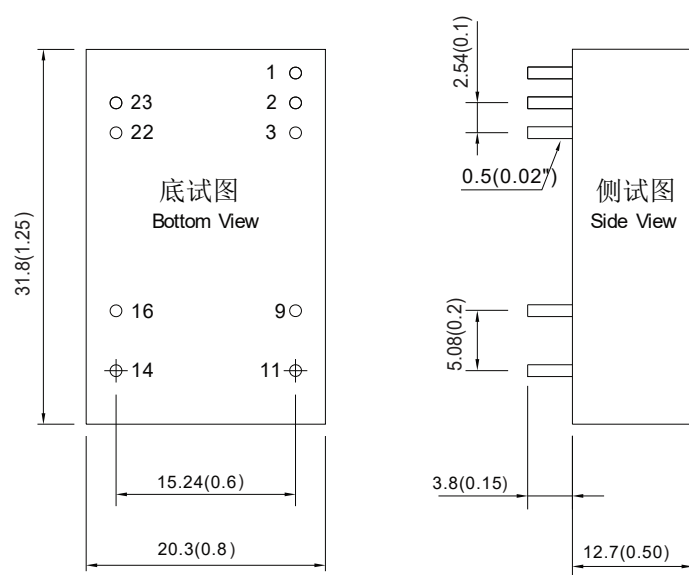
电气特性

ELECTRICAL SPECIFICATIONS

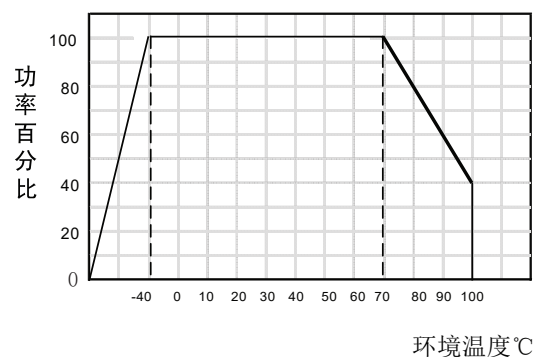
输入特性Input	Min	Nom	Max	Notes
输入电压Vdc	9	24	36	
Input Voltage	18	48	75	
	40	110	160	
输出特性Output				
输出电压精度			±1%	Vo1
Setpoint Accuracy			±3%	Vo2
源效应			±0.2%	
Line Regulation				
负载效应			±0.5%	
Load Regulation				
动态响应			3%Vo Pk deviation	50~75% load
Dynamic Response			200μS settling time	50~25% load
纹波与噪声			50mVp-p	Vo≤5Vdc
Ripple and Noise			100mVp-p	Other
			200mVp-p	Vo≥48Vdc
温度系数		±0.02%/℃		
Temperature Coefficient				
综合特性General				
隔离电压			1500Vdc/1min/0.5mA	Input-Output
Isolation Voltage				
开关频率		300KHz		
Switching Frequency				
MTBF		1×10 ⁶ h		Bellcore TR332,25℃
工作环境温度 (满载不降额)	-40℃		+70℃	Industry 工业级
Case Temperature	-40℃		+70℃	Military GS 军品筛选级
	-40℃		+70℃	Military PJ 普军级
	-55℃		+85℃	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	效率 Efficiency
			Vo1/Vo2	Io1/Io2	
单路	CFDB10-24S03	9~36	3.3	2.4	87%
	CFDB10-24S05	9~36	5.05	2	88%
	CFDB10-24S12	9~36	12	0.83	87%
	CFDB10-24S15	9~36	15	0.66	87%
	CFDB10-24S24	9~36	24	0.416	88%
	CFDB10-48S03	18~75	3.3	2.4	86%
	CFDB10-48S05	18~75	5.05	2	87%
	CFDB10-48S12	18~75	12	0.83	87%
	CFDB10-48S15	18~75	15	0.66	87%
	CFDB10-48S24	18~75	24	0.416	88%
	CFDB10-110S03	40~160	3.3	2.4	86%
	CFDB10-110S05	40~160	5.05	2	87%
	CFDB10-110S12	40~160	12	0.83	87%
	CFDB10-110S15	40~160	15	0.66	87%
	CFDB10-110S24	40~160	24	0.416	88%
双路	CFDB10-24D05	9~36	+5.05/-5.05	+1/-1	83%
	CFDB10-24D12	9~36	+12/-12	+0.416/-0.416	87%
	CFDB10-24D15	9~36	+15/-15	+0.33/-0.33	87%
	CFDB10-48D05	18~75	+5.05/-5.05	+1/-1	83%
	CFDB10-48D12	18~75	+12/-12	+0.25/-0.25	87%
	CFDB10-48D15	18~75	+15/-15	+0.2/-0.2	87%
	CFDB10-110D05	40~160	+5.05/-5.05	+1/-1	83%
	CFDB10-110D12	40~160	+12/-12	+0.416/-0.416	87%
	CFDB10-110D15	40~160	+15/-15	+0.33/-0.33	87%

封装尺寸和管脚定义



环境温度降额曲线图:



管脚定义	1	2,3	9	11	14	16	22,23
单路Single	CNT	-Vin	NP	NC	+Vo	-Vo	+Vin
双路Dual output	CNT	-Vin	com	-Vo2	+Vo1	com	+Vin