

HD Series

+125/130°C, High Temperature (耐高温), High Ripple Current(高纹波)

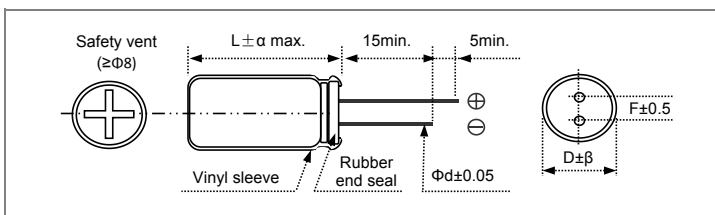
FEATURES 特点

1. High Temperature ,high ripple current at high frequency,load life of 1,000~3,000 hours at 125/130°C.
2. Specially designed for electronic ballast and energy saving lamp.

SPECIFICATIONS 规格表

Item 项目	Performance Characteristics 特性参数							
Operation Temperature Range 工作温度范围	-40°C ~ +125/130°C							
Rated Working Voltage Range 额定电压范围	160 to 450 VDC							
Nominal Capacitance Range 静电容量范围	1 to 220µF							
Capacitance Tolerance 静电容量允许偏差	±20% (120Hz 20°C)							
Leakage Current 漏电流	LC ≤ 0.02CV + 25 (µA) Whichver is greater measured after 2 minutes application of rated working voltage at +20 °C 施加额定工作电压充电2分钟后读数。 [C : 静电容量(µF), V : 额定电压(V)]							
Dissipaom Factor (tan δ) 损失角正切值 (120Hz, +20°C)	Working Voltage (v)	160	200	250	350	400	450	
	tan δ (max.)	0.15	0.15	0.15	0.20	0.20	0.20	
Low Temperature characteristics 温度特性(阻抗比)	Impedance ratio max. at 120 Hz 阻抗比最大值							
	Working Voltage (V)	160	200	250	350	400	450	
	Z(-25°C) / Z(+20°C)	3	3	3	5	5	6	
High Temperature Loading (Endurance) 高温负荷寿命(耐久性)	Test conditions 试验条件				Post test requirements at +20°C 试验后特性应满足如下要求			
	Duration 持续时间	2,000~3,000 hours [Φ≤6.3 : 1000 hours]			Leakage current 漏电流	≤Initial specified value 初始规格值		
	Ambient temp. 环境温度	+125/130°C			Cap. Change 静电容量变化率	within ±30% of initial measured value 初始测试值的±30%内		
	Applied voltage 施加电压	DC voltage with maximum permissible ripple current specified at +125/130°C 施加直流电压与额定纹波电流(所加电压峰值[DC+AC]不超过额定工作电压)			D.F.(tan δ) 损失角正切值	≤300% of initial specified value 3倍初始规格值		
					Before test requirement: Resumed 16 hours at normal temperature 测试前将电容在常温中放置16小时			
Shelf Life 高温储存寿命	Test conditions 试验条件				Post test requirements at +20°C 试验后特性应满足如下要求			
	Duration 持续时间	1,000 hours			Leakage current 漏电流	≤Initial specified value 初始规格值		
	Ambient temp. 环境温度	+105°C			Cap. Change 静电容量变化率	within ±30% of initial measured value 初始测试值的±30%内		
	Applied voltage 施加电压	(None) 无			D.F.(tan δ) 损失角正切值	≤300% of initial specified value 3倍初始规格值		
* (Before the measurements, the capacitor shall be pretreated by applying DC working voltage for 30min, after discharged and then stored under standard atmospheric conditions for 24-48 hours) 测试前应将电容在常温中施加工作电压30分钟, 放电后在标准气压下放置24~48小时								
Other 其他	JIS C-5101 (IEC 60384)							

CASE SIZE TABLE 尺寸图 (Unit : mm)



ΦD	8	10	13	16	18
F	3.5	5.0		7.5	
Φd	0.5 or 0.6		0.6	0.8	
α	(L < 20) 1.5			(L ≥ 20) 2.0	
β	(D < 20) 0.5			(D ≥ 20) 1.0	

Multiplier for Ripple Current vs. Frequency 纹波电流频率修正系数

Frequency Coefficient 频率系数

Cap(µF)	120 Hz	1K Hz	10K Hz	100K Hz
1~5.6	0.35	0.65	0.80	1.00
6.8~180	0.50	0.75	0.90	1.00
≥220	0.80	0.85	0.94	1.00

Multiplier for Ripple Current vs. Temperature 纹波电流温度修正系数

纹波电流温度修正系数

Temperature (°C)	45	60	70	85	95	105	115	125/130
Multiplier	1.8	1.5	1.45	1.3	1.25	1.20	1.15	1.0

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STANDARD RATINGS 标准品一览表

Voltage(Code)		160V(2C)		200V(2D)		250V(2E)		350V (2V)	
Cap.(μF)	Code	Case Size	R.C	Case Size	R.C	Case Size	R.C	Case Size	R.C
1	001							8×12	51
2.2	2P2					8×12	64	10×16	70
3.3	3P3	8×12	70	8×12	73	10×13	80	10×16	84
4.7	4P7	10×13	76	10×13	80	10×16	88	10×20	105
6.8	6P8	8×16	88	8×16	94	10×16	96	13×21	176
8.2	8P2	10×16	96	10×16	100	10×16	104	13×21	192
10	010	10×16	200	10×16	200	10×16	224	13×21	224
15	015	10×16	336	10×20	336	13×21	360	13×25	240
22	022	10×16	350	13×21	400	13×21	430	16×25	252
		10×20	380						
33	033	10×20	410	13×21	480	13×25	480	16×30	360
		13×21	430						
47	047	13×25	528	13×25	528	16×25	518	16×35	475
56	056					13×21	500		
68	068	16×25	547	16×25	547	16×30	662	18×35	612
100	101	16×25	806	16×35	806	18×30	864		
150	151	18×30	979	18×35	979	18×25			
220	221	18×35	1008						

Maximum Allowable Ripple Current (mA rms) at 125/130°C 100KHz

Case Size ΦD x L(mm)

Voltage(Code)		400V(2G)		420V(2M)		450V(2W)			
Cap.(μF)	Code	Case Size	R.C	Case Size	R.C	Case Size	R.C		
1	001	10×13	58			8×16	64		
2.2	2P2	6.3×12	40			10×16	77		
		10×16	74						
3.3	3P3	10×16	88			10×16	88		
4.7	4P7	10×20	104			10×20	104		
5.6	5P6	13×21	112			13×21	112		
6.8	6P8	13×21	176			13×21	120		
8.2	8P2	10×13	130			13×21	224		
		13×21	208						
10	010	10×16	185			13×21	256		
		13×21	224						
15	015	13×25	256			13×25	336		
33	033					13×30	370		
82	082					18×32	420		
100	101					22×32	530		
180	181			22×45	600				

Maximum Allowable Ripple Current (mA rms) at 125/130°C 100KHz

Case Size ΦD x L(mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately