

HC 系列
SERIES

105°C 标准品
寿命: 105°C 2000 小时

105°C STANDARD / GENERAL PURPOSE
Load Life :105°C 2000 hours

■ 规格表 SPECIFICATIONS

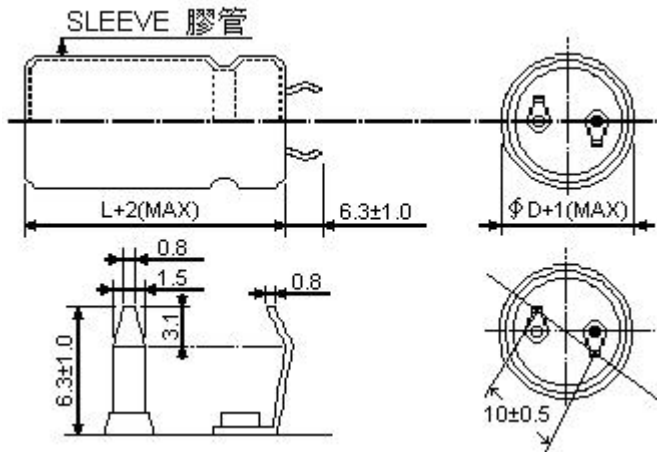
项目 Items	特性 Characteristics														
使用温度范围 Category Temperature Range	-40~+105°C							-25~+105°C							
额定电压范围 Rated Voltage Range	10~100V.DC							160~450V.DC							
静电容量容许差 Capacitance Tolerance	±20%(M)(25°C, 120Hz)														
泄漏电流 Leakage Current (MAX)	I ≤ 0.03CV (施加额定电压 5 分钟后) (After 5 minutes application of rated voltage) I: 泄漏电流 Leakage Current(μA) C: 额定静电容量 Rated Capacitance(μF) V: 额定电压 Rated Voltage(V)														
散逸因素(tan δ) Dissipation Factor (MAX)	额定电压(V) Rated Voltage	10	16	25	35	50	63	100	160	200	250	350	400	450	120Hz 25°C
	tan δ	0.55	0.45	0.35	0.30	0.25	0.25	0.20	0.15	0.15	0.15	0.20	0.20	0.20	
高温负荷 Load Life	105°C中施加额定电压(含纹波电流)2000 小时后, 必须满足下列的值。 After applying rated voltage with rated ripple current for 2000hrs at 105°C, the capacitors shall meet the following requirements														
	静电容量变化率 Capacitance Change	初期值±25%以内 Within ±25% of the initial value													
	散逸因素(tan δ) Dissipation Factor	规格值 200%以下 Not more than 200% of the specified value													
	泄漏电流 Leakage Current	规格值以下 Not more than the specified value													
高温放置 Shelf Life	105°C恒温不施加额定电压 1000 小时后, 必须满足下列的值。 After applying no rated voltage for 1000hrs at 105°C. The capacitors shall meet the following requirements.														
	静电容量变化率 Capacitance Change	初期值±20%以内 Within ±20% of the initial value													
	散逸因素(tan δ) Dissipation Factor	规格值 200%以下 Not more than 200% of the specified value													
	泄漏电流 Leakage Current	规格值 200%以下 Not more than 200% of the specified value													
突波电压(V) Surge Voltage	额定电压(V) Rated Voltage	10	16	25	35	50	63	100	160	200	250	350	400	450	
	突波电压(V) Surge Voltage	13	20	32	44	63	79	125	200	250	300	400	450	500	
低温特性 Low Temperature Stability (合成阻抗比) Impedance Ratio (MAX)	额定电压(V) Rated Voltage	10	16	25	35	50	63~100	160~250	350~450	120Hz					
	Z(-25°C) / Z(25°C)	8	6	6	6	4	3	4	6						
	Z(-40°C) / Z(25°C)	15	15	15	10	8	6	-	-						

■ 尺寸图 DIMENSIONS

(mm)

■ 纹波电流补偿系数 MULTIPLIER FOR RIPPLE CURRENT

(1) 频率系数 Frequency coefficient



频率(Hz) Frequency		60	120	1k	10k	100k
系数 Coefficient	10~35V	0.90	1.00	1.05	1.10	1.10
	50~100V	0.90	1.00	1.15	1.20	1.20
	160~250V	0.80	1.00	1.35	1.45	1.50
	315~450V	0.80	1.00	1.10	1.15	1.20

■ 尺寸一览表, 额定纹波电流一览表 STANDARD SIZE, RATED RIPPLE CURRENT

Size ϕ D×L(mm), Ripple Current (A r.m.s./105°C, 120 Hz)

额定电压 WV(V.DC)	10 (1A)								额定电压 WV(V.DC)	16 (1C)							
	ϕ 22		ϕ 25		ϕ 30		ϕ 35			ϕ 22		ϕ 25		ϕ 30		ϕ 35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
15000	22×25	3.00							10000	22×25	2.60						
18000	22×30	3.30							15000	22×30	3.20	25×25	3.20				
22000	22×35	4.00							18000	22×40	4.30	25×30	4.30				
27000	22×40	4.40	25×30	4.40					22000	22×45	4.70	25×35	4.70	30×25	4.70		
33000	22×45	4.80	25×35	4.80					27000	22×50	5.00	25×40	5.00	30×30	5.00		
39000	22×50	5.10	25×40	5.10	30×30	5.10	35×25	5.10	33000			25×45	5.70	30×35	5.70		
56000			25×50	6.00	30×40	6.00	35×30	6.00	47000					30×40	6.00	35×35	6.00
68000					30×45	6.50	35×35	6.50	56000					30×50	6.80	35×40	6.80
82000					30×50	7.00	35×40	7.00	68000							35×45	7.30
100000							35×45	7.50	82000							35×50	8.00

额定电压 WV(V.DC)	25 (1E)								额定电压 WV(V.DC)	35 (1V)							
	ϕ 22		ϕ 25		ϕ 30		ϕ 35			ϕ 22		ϕ 25		ϕ 30		ϕ 35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
6800	22×25	2.40							3900	22×25	2.40						
8200	22×30	3.00	25×25	3.00					5600	22×30	3.00						
10000	22×35	3.50	25×30	3.50					6800	22×35	3.40						
15000	22×45	4.40	25×35	4.40					8200	22×40	3.60	25×30	3.60				
18000	22×50	4.70	25×40	4.70	30×30	4.70	35×25	4.70	10000	22×45	4.30	25×35	4.30				
22000			25×50	5.60	30×35	5.60	35×30	5.60	12000	22×50	4.60	25×40	4.60				
27000					30×40	5.80	35×35	5.80	15000			25×50	5.40	30×35	5.40	35×30	5.40
39000					30×50	6.30	35×40	6.30	18000					30×40	5.60	35×35	5.60
47000							35×50	7.80	22000					30×50	6.30	35×40	6.30
									27000							35×45	7.50
									33000							35×50	7.80

额定电压 WV(V.DC)	50 (1H)								额定电压 WV(V.DC)	63 (1J)							
	ϕ 22		ϕ 25		ϕ 30		ϕ 35			ϕ 22		ϕ 25		ϕ 30		ϕ 35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
2200	22×25	2.40							1500	22×25	1.80						
3300	22×30	3.00							2200	22×30	2.30	25×25	2.30				
3900	22×35	3.30							2700	22×35	3.00	25×30	3.00				
4700	22×40	3.50	25×30	3.50					3900	22×45	4.00	25×35	4.00				
5600	22×45	4.20	25×35	4.20	30×25	4.20			4700	22×50	4.30	25×40	4.30	30×30	4.30	35×25	4.30
6800	22×50	4.50	25×40	4.50	30×30	4.50			5600			25×45	4.70	30×35	4.70	35×30	4.70
8200			25×45	4.90	30×35	4.90			8200					30×50	5.80	35×35	5.80
10000			25×50	5.30	30×40	5.30	35×30	5.30	10000							35×40	6.00
12000					30×45	6.00	35×35	6.00	12000							35×50	7.50
15000					30×50	6.20	35×40	6.20									
18000							35×45	7.30									
22000							35×50	7.70									

额定电压 WV(V.DC)	100 (2A)								额定电压 WV(V.DC)	160 (2C)							
	ϕ 22		ϕ 25		ϕ 30		ϕ 35			ϕ 22		ϕ 25		ϕ 30		ϕ 35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
680	22×25	1.30							270	22×25	0.80						
820	22×30	1.60							390	22×30	1.00						
1000	22×35	1.80	25×25	1.80					470	22×35	1.20	25×25	1.20				
1200	22×40	1.90	25×30	1.90					560	22×40	1.40	25×30	1.40				
1500	22×45	2.60	25×35	2.60					680	22×45	1.60	25×35	1.60				
1800	22×50	2.80	25×40	2.80	30×30	2.80			820	22×50	1.90	25×40	1.90	30×30	1.90	35×25	1.90
2200			25×45	3.30	30×35	3.30			1000			25×45	2.20	30×35	2.20	35×30	2.20
2700			25×50	3.80	30×40	3.80	35×30	3.80	1200			25×50	2.45	30×40	2.45	35×35	2.45
3300					30×45	4.20	35×35	4.20	1500					30×45	2.90	35×40	2.90
3900					30×50	4.80	35×40	4.80	1800					30×50	3.20	35×45	3.20
4700							35×45	5.30	2200							35×50	4.00
5600							35×50	5.90									

■ 尺寸一览表, 额定纹波电流一览表 STANDARD SIZE, RATED RIPPLE CURRENT

Size ϕ D \times L(mm), Ripple Current (A r.m.s./105°C, 120 Hz)

额定电压 WV(V.DC)	200 (2D)								额定电压 WV(V.DC)	250 (2E)							
	ϕ 22		ϕ 25		ϕ 30		ϕ 35			ϕ 22		ϕ 25		ϕ 30		ϕ 35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
220	22 \times 25	0.80							150	22 \times 25	0.65						
330	22 \times 30	1.00							220	22 \times 30	0.85						
390	22 \times 35	1.20							270	22 \times 35	1.00						
470	22 \times 40	1.40	25 \times 30	1.40					330	22 \times 40	1.20	25 \times 30	1.20				
560	22 \times 45	1.60	25 \times 35	1.60	30 \times 25	1.60			390	22 \times 45	1.40	25 \times 35	1.40				
680	22 \times 50	1.90	25 \times 40	1.90	30 \times 30	1.90			470	22 \times 50	1.60	25 \times 40	1.60	30 \times 30	1.60		
820			25 \times 45	2.20	30 \times 35	2.20			560			25 \times 45	1.90	30 \times 35	1.90		
1000			25 \times 50	2.45	30 \times 40	2.45	35 \times 30	2.45	680			25 \times 50	2.10	30 \times 40	2.10	35 \times 30	2.10
1200					30 \times 45	2.90	35 \times 35	2.90	820					30 \times 45	2.40	35 \times 35	2.40
1500					30 \times 50	3.20	35 \times 40	3.20	1000					30 \times 50	2.80	35 \times 40	2.80
1800							35 \times 50	4.00	1200							35 \times 50	3.30

额定电压 WV(V.DC)	350 (2V)								额定电压 WV(V.DC)	400 (2G)							
	ϕ 22		ϕ 25		ϕ 30		ϕ 35			ϕ 22		ϕ 25		ϕ 30		ϕ 35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
100	22 \times 25	0.40							100	22 \times 25	0.40						
120	22 \times 30	0.60							120	22 \times 30	0.55						
150	22 \times 35	0.70	25 \times 25	0.70					150	22 \times 35	0.65	25 \times 25	0.65				
180	22 \times 40	0.80	25 \times 30	0.80					180	22 \times 40	0.80	25 \times 30	0.80				
220	22 \times 45	0.95	25 \times 35	0.95	30 \times 25	0.95			220	22 \times 45	0.90	25 \times 35	0.90	30 \times 25	0.90		
270	22 \times 50	1.05	25 \times 40	1.05	30 \times 30	1.05			270	22 \times 50	1.00	25 \times 40	1.00	30 \times 30	1.00		
330			25 \times 45	1.20	30 \times 35	1.20			330			25 \times 45	1.10	30 \times 35	1.10		
390			25 \times 50	1.40	30 \times 40	1.40	35 \times 30	1.40	390			25 \times 50	1.35	30 \times 40	1.35	35 \times 30	1.35
470					30 \times 45	1.60	35 \times 35	1.60	470					30 \times 45	1.55	35 \times 35	1.55
560					30 \times 50	1.90	35 \times 40	1.90	560					30 \times 50	1.80	35 \times 40	1.80
680							35 \times 45	2.00	680							35 \times 45	1.95
820							35 \times 50	2.80	820							35 \times 50	2.50

额定电压 WV(V.DC)	450 (2W)							
	ϕ 22		ϕ 25		ϕ 30		ϕ 35	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
82	22 \times 25	0.38						
100	22 \times 30	0.50						
120	22 \times 35	0.60						
150	22 \times 40	0.70	25 \times 30	0.70				
180	22 \times 50	0.90	25 \times 35	0.90				
220			25 \times 40	0.95	30 \times 30	0.95	35 \times 25	0.95
270			25 \times 50	1.20	30 \times 35	1.20	35 \times 30	1.20
390					30 \times 45	1.50	35 \times 35	1.50
470					30 \times 50	1.70	35 \times 40	1.70
560							35 \times 50	2.20