

HD series

- 105°C high-temperature resistance, high ripple current and long life.
- 10000hours Life.
- Suitable for LED and electronic rectifier.
- RoHS Compliance
- 105°C耐高溫、高紋波、長壽命。
- 壽命10000小時。
- 適用於節能燈與電子整流器。



SPECIFICATIONS

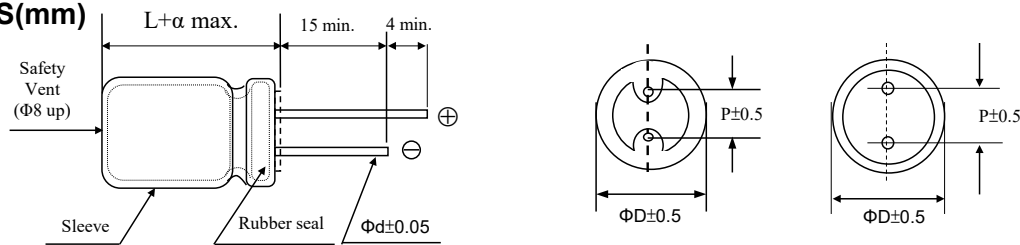
Items 項目	Characteristics 特性							
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20℃)							
Operating Temperature Range 適用溫度範圍	-40 ~ +105℃				-25 ~ +105℃			
Rated Voltage Range 額定電壓範圍	160 ~ 400VDC				450VDC			
Leakage Current 洩漏電流	I ≤ 0.02CV + 10 (μA) (After 2 minutes application of DC rated voltage, at 20 ℃)				I ≤ 0.03CV + 10 (μA) (After 2 minutes application of DC rated voltage, at 20 ℃)			
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃							
	Rated Voltage(V)	160	200	250	350	400	450	420~500
	tan δ(Max)	0.15	0.15	0.15	0.15	0.20	0.20	0.20
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.							
	Rated Voltage(V)	160	200	250	350	400	450	
	Z(-25℃)/Z(20℃)	3	3	3	5	5	6	
	Z(-40℃)/Z(20℃)	6	6	6	6	6	-	
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 10,000 hours(8Φ~10Φ:8,000 hours) at 105℃.							
	Capacitance Change	Within ± 20% of Initial Value						
	tan δ	200% or less of Initial Specified Value						
	Leakage Current	Initial Specified Value or less						
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.							
	Capacitance Change	Within ± 20% of Initial Value						
	tan δ	200% or less of Initial Specified Value						
	Leakage Current	500% or less of Initial Specified Value						
Standards 參照標準	IEC 60384-4(JIS C 5101-4)							

Frequency Coefficient of Permissible Ripple Current

Frequency (Hz)	50	120	1K	10K	100K
Coefficient	0.45	0.55	0.75	0.90	1.00

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DIMENSIONS(mm)



ΦD	8	10	12.5	16	18	22
P	3.5	5.0	5.0	7.5	7.5	10.0
Φd	0.5	0.6	0.6	0.8	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 105°C 100KHz.

Cap (μF)	V	160		200		250	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
2.2		8x11.5	80	8x11.5	90	8x11.5	90
3.3		8x11.5	90	8x11.5	102	10x12.5	110
4.7		8x11.5	98	8x15	110	10x16	120
5.6		8x15	104	8x15	118	10x16	125
6.8		8x15	115	10x12.5	128	10x16	130
8.2		10x16	125	10x16	220	10x16	240
10		10x16	255	10x16	260	10x20	290
15		10x16	430	10x20	430	12.5x20	460
22		10x20	510	12.5x20	510	12.5x20	610
33		12.5x20	580	12.5x20	610	12.5x25	650
47		12.5x25	670	12.5x25	670	16x25	730
68		16x25	770	16x25	770	16x31.5	930
100		16x25	900	16x25	1030	18x31.5	1210
150		18x31.5	1270	18x35.5	1330	22x35	1530
220		18x35.5	1410	22x35	1710		

Cap (μF)	V	350		400		450	
	Item	D x L	R.C.	D x L	R.C.	D x L	R.C.
1		8x11.5	74	8x15	85	10x12.5	90
1.5		10x12.5	80	10x12.5	95	10x16	100
2.2		10x16	98	10x16	105	10x16	110
3.3		10x16	110	10x16	115	10x16	120
4.7		10x20	145	10x20	148	10x20	150
5.6		12.5x20	165	12.5x20	180	12.5x20	200
6.8		12.5x20	200	12.5x20	230	12.5x20	260
8.2		12.5x20	250	12.5x20	270	12.5x20	290
10		12.5x20	290	12.5x20	300	12.5x20	330
15		12.5x25	350	12.5x25	390	12.5x25	430
22		16x25	450	16x25	500	16x31.5	600
33		16x31.5	510	16x31.5	650	16x36	710
47		16x36	670	18x26	850	18x31.5	900
68		18x31.5	860	18x31.5	960	18x35.5	1150
82		18x31.5	1150	18x35.5	1300	18x40	1400
100		18x35.5	1250	18x40	1400		

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