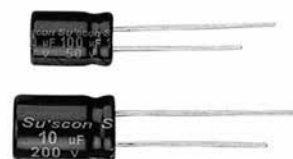


HE series

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- High ripple current.
- 8000~10000 hours long life product.
- RoHS Compliance
- 高紋波電流。
- 8000~10000小時長壽命品。



SPECIFICATIONS

Items 項 目	Characteristics 特 性							
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)							
Operating Temperature Range 適用溫度範圍	-40 ~ +105°C				-25 ~ +105°C			
Rated Voltage Range 額定電壓範圍	160 ~ 400VDC				450VDC			
Leakage Current 洩漏電流	I ≤ 0.04CV +100 (μA) (After 1 minutes application of DC rated voltage, at 20 °C)							
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C							
	Rated Voltage(V)	160	200	250	350	400	420	450
	tan δ(Max)	0.15	0.15	0.15	0.20	0.20	0.20	0.20
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.							
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°C)/Z(20°C)	3	3	3	6	6	6	
	Z(-40°C)/Z(20°C)	6	6	6	6	6	-	
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 10,000 hours(ΦD≤10:8,000 hours) at 105°C.							
	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°C after exposing them for 1,000 hours 105°C 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	Initial Specified Value or less						
Standards 參照標準	IEC 60384-4 (JIS C 5101-4)							

Frequency Coefficient of Permissible Ripple Current

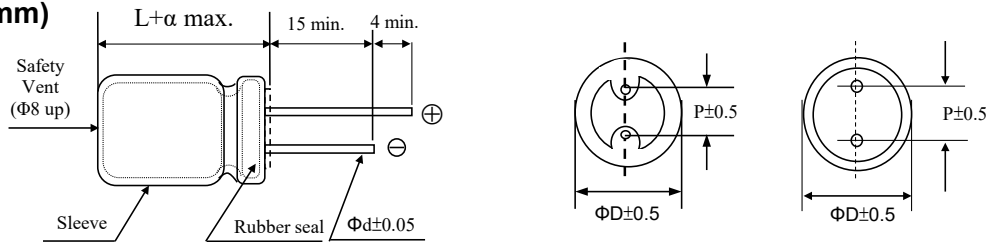
Capacitance (μF)	Frequency (Hz)				
	50	120	1K	10K	100K
1~5.6	0.65	1.00	1.25	1.50	2.00
6.8 ~ 82	0.70	1.00	1.75	2.25	2.50
100 ~ 330	0.75	1.00	1.67	2.05	2.25

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DIMENSIONS(mm)



ΦD	8	10	12.5	14.5	16	18
P	3.5	5.0	5.0	7.5	7.5	7.5
Φd	0.5	0.6	0.6	0.8	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 105℃ 120 Hz.

Cap (μF)	V	160			200			250		
	Item	D x L	R.C.		D x L	R.C.		D x L	R.C.	
			120Hz	100KHZ		120Hz	100KHZ		120Hz	100KHZ
10		10x16	125	313	10x16	125	313	10x20	140	350
22		10x20	200	500	10x20	200	500	10x20	200	500
33		10x20	250	625	10x20	260	650	12.5x20	320	800
47		10x20	300	750	12.5x20	390	975	12.5x20	390	975
68		12.5x20	470	1175	12.5x20	470	1175	16x22	520	1300
82		12.5x20	510	1275	16x22	550	1375	16x22	550	1375
100		12.5x25	620	1395	16x22	630	1420	16x25	680	1530
		16x20	630	1418						
150		16x20	770	1733	16x25	840	1890	18x25	860	1935
220		18x25	1020	2295	18x25	1050	2365	18x31.5	1130	2545
330		18x31.5	1390	3128	18x35.5	1430	3220			

Cap (μF)	V	350			400			450		
	Item	D x L	R.C.		D x L	R.C.		D x L	R.C.	
			120Hz	100KHZ		120Hz	100KHZ		120Hz	100KHZ
6.8		10x16	110	275	10x16	110	275	10x20	110	275
10		10x20	140	350	10x20	140	350	12.5x20	180	450
15					12.5x20	220	550	12.5x25	240	600
22		12.5x20	260	650	12.5x20	260	650	16x22	290	725
33		16x22	360	900	16x22	360	900	16x25	390	975
	18x20							380	950	
47		16x22	430	1075	16x25	470	1175	18x25	480	1200
	18x20				450	1125				
68		16x25	560	1400	18x25	585	1463	18x31.5	630	1575
		18x20	550	1375						
82		18x25	610	1525	18x25	610	1525	18x35.5	715	1788
100		18x25	700	1575	18x31.5	765	1721	18x40	800	1800
120		18x31.5	830	1868	18x35.5	865	1946			
150		18x35.5	960	2160	18x40	985	2216			

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SLIM TYPE

- 105°C high-temperature and high voltage 350~450V, life 8000~10000hrs.
- Specially Size, 8~16mm diameter.
- For LCD-TV and LCD-Monitor Power.
- RoHS Compliance.
- 105°C 耐高溫標準品，高壓350~450V，壽命8000~10000小時。
- 特殊專用尺寸，直徑8~16mm。
- 使用於LCD TV與LCD Monitor電源應用。



STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 105°C 120 Hz.

Cap (µF)	V	350			400			450		
		D x L	R.C.		D x L	R.C.		D x L	R.C.	
			120Hz	100KHZ		120Hz	100KHZ		120Hz	100KHZ
22		10x30	212	530	8x50	236	590	8x50	254	635
					10x35	260	650	10x40	280	700
33		8x50	240	600	8x60	280	700	8x60	280	700
		10x35	260	650	10x40	312	780	10x45	332	830
39		10x40	280	700	12.5x30	336	840	12.5x40	360	900
					10x50	380	950	10x50	420	1050
47		10x50	380	950	12.5x35	368	920	12.5x45	408	1020
					10x60	480	1200	10x60	520	1300
53		12.5x35	400	1000	12.5x40	460	1150	12.5x50	560	1400
		14.5x30	400	1000	14.5x35	440	1100	14.5x45	512	1280
53		10x50	440	1100	10x60	480	1200	12.5x50	600	1500
		12.5x40	480	1200	12.5x45	500	1250	14.5x45	512	1280
68		14.5x30	400	1000	14.5x35	440	1100	16x35	560	1400
		10x60	520	1300	12.5x50	540	1350	12.5x60	660	1650
82		12.5x40	480	1200	14.5x45	600	1500	14.5x50	680	1700
		14.5x35	440	1100	12.5x60	600	1500	16x40	628	1570
100		12.5x50	540	1350	14.5x50	648	1620	12.5x60	700	1750
		14.5x40	588	1470	16x40	648	1620	14.5x50	720	1800
100		12.5x60	660	1485	16x45	648	1620	16x45	792	1980
		14.5x45	682	1534	14.5x50	770	1733	14.5x60	855	1924
100		14.5x45	682	1534	16x50	902	2030	16x50	990	2228