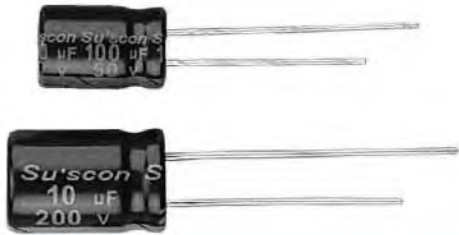


HE series

- Enabled high ripple current.
- 10,000 hours life.
- RoHS Compliance.
- 耐高紋波電流。
- 10,000小時保證壽命品。



HE

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 工作電壓範圍	160 ~ 400V			450V			
Leakage Current 洩漏電流	I≤0.04CV +100 (μA), After 1 minutes application of DC working 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	450
	tan δ (Max)	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°C) / Z (20°C)	3	3	3	6	6	6
Load Life 負荷壽命	10000hours, with application of working voltage at 105°C (8φ~10φ: 8000hours)						
	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	1,000hours, no voltage applied, at 105°C 。 After Test: UR to be applied for 30 minutes, 24 to 48hours before measurement.						
	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	JIS C 5141 and JIS C 5102						

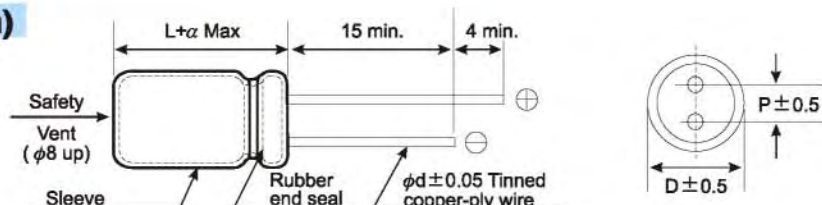
PERMISSIBLE RIPPLE CURRENT

Frequency Coefficient

Coefficient \ Frequency (Hz)	50	120	1K	10K	100K
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

HE series

DIMENSIONS (mm)



ϕD	8	10	13	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 < 16) 1.0 (L ≥ 16) 2.0
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STANDARD RATINGS

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

Cap (μF)	WV(V) (Code)	160 (2C)			200 (2D)			250 (2E)		
		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	625
33		10x20	250	625	10x20	260	650	13x21	320	800
47		10x20	300	750	13x21	390	975	13x21	390	1025
68		13x21	470	1175	13x21	470	1175	16x22	520	1500
82		13x21	510	1275	16x22	550	1375	16x22	550	1500
100		13x25	620	1395	16x22	630	1418	16x26	680	1530
		16x22	630	1418						
150		16x22	770	1733	16x26	840	1890	18x25	860	1935
220		16x26	1020	2295	18x25	1050	2363	18x32	1130	2543
330		18x32	1390	3128	18x35	1430	3218			

Cap (μF)	WV(V) (Code)	350 (2V)			400 (2G)			450 (2W)		
		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	13x21	180	450
22		13x21	260	650	13x21	260	650	16x22	290	725
33		16x22	360	900	16x22	360	900	16x26	390	975
								18x22	380	950
47		16x20	430	1075	16x25	470	1175	18x25	480	1200
					18x20	450	1125			
68		16x26	560	1400	18x25	585	1463	18x32	630	1575
		18x20	550	1375						
82		18x25	610	1525	18x25	610	1525	18x35	715	1788
100		18x25	700	1575	18x32	765	1721	18x40	800	1800
120		18x32	830	1868	18x35	865	1946			
150		18x35	960	2160	18x40	985	2216			

※ 13mm may be replaced by 12.5mm upon customer's request.

HE series

SPECIALLY SIZE

- 105°C high-temperature and high voltage 350~450WV, life 8000~10000hrs.
- Specially Size, 8~16mm diameter.
- For LCD-TV and LCD-Monitor power.
- RoHS Compliance.
- 105°C耐高温，高壓350~450WV，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。



HE

STANDARD RATINGS

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

Cap (μ F)	WV(V) (Code)	350 (2V)			400 (2G)			450 (2W)		
		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	8x61	280	700	8x61	280	700
		10x35	260	650	10x40	312	780	10x45	332	830
					13x30	336	840	13x40	360	900
39		10x40	280	700	10x50	380	950	10x50	420	1050
					13x35	368	920	13x45	408	1020
47		10x50	380	950	10x60	480	1200	10x60	520	1300
		13x35	400	1000	13x40	460	1150	13x50	560	1400
		14.5x30	400	1000	14.5x35	440	1100	14.5x45	512	1280
53		10x50	440	1100	10x60	480	1200	13x50	600	1500
		13x40	480	1200	13x45	500	1250	14.5x45	512	1280
		14.5x30	400	1000	14.5x35	440	1100	16x35	560	1400
68		10x60	520	1300	13x50	540	1350	13x60	660	1650
		13x45	480	1200				14.5x50	680	1700
		14.5x35	440	1100	14.5x45	600	1500	16x40	628	1570
82		13x50	540	1350	13x60	600	1500	13x60	700	1750
					14.5x50	648	1620	14.5x50	720	1800
		14.5x40	588	1470	16x40	648	1620	16x45	792	1980
100		13x60	660	1485	14.5x50	770	1733	14.5x60	855	1924
		14.5x45	682	1534.5	16x50	902	2030	16x50	990	2228

※ 13mm may be replaced by 12.5mm upon customer's request.