

## SE series

- 105°C high-temperature resistance, high reliability and long life.
- Suitable for office communicative or industrial equipments.
- 105°C耐高溫、高信賴度、長壽命。
- 適用於辦公室通訊設備、工業設備。



### 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				-40 ~ +105°C				-25 ~ +105°C			
Rated Voltage Range 工作電壓範圍	6.3 ~ 100V				160 ~ 250V				350 ~ 450V			
Leakage Current 洩漏電流	I ≤ 0.01CV or 3(µA), which is greater. (After 2 minutes application of working voltage)						I ≤ 0.03CV+20(µA), (After 3 minutes application of working voltage)					
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120 Hz. Temperature: 20°C											
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	350~450	
	tan δ (Max)	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.15	0.20	
When nominal capacitance exceeds 1000µF, add 0.02 to the value above for each 1000µF increase. (20°C · 120Hz)												
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz.											
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	350~400	450
	Z (-25°C) / Z (20°C)	4	3	3	2	2	2	2	2	4	8	15
Z (-40°C) / Z (20°C)	8	6	6	4	4	4	4	4	6	-	-	
Load Life 負荷壽命	5,000hours, with application of working voltage at 105°C (φD ≤ 8 φ: 3,000 hrs; φD=10 φ: 4,000hrs; φD > 10 φ: 5,000hrs)											
	Capacitance Change	Within ±25% 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 5101-4-1 and JIS C 5101-2											

### PERMISSIBLE RIPPLE CURRENT

#### Temperature Coefficient

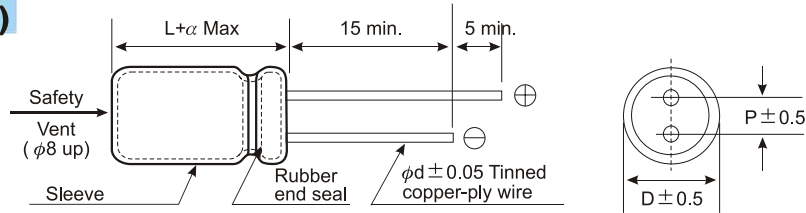
TEMP (°C)	65	85	105
Coefficient	1.80	1.50	1.00

#### Frequency Coefficient

VV(V)	Capacitance (µF)	Frequency (Hz)			
		50	120	1K	≥10K
≤100	< 100	0.70	1.00	1.40	1.60
	100 ~ 4700	0.75	1.00	1.30	1.40
	> 4700	0.80	1.00	1.15	1.20
≥160	1 ~ 820	0.80	1.00	1.30	1.40

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## DIMENSIONS (mm)



φ D	5	6.3	8	10	13	16	18	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12.5
φ d	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	1.0

$\alpha$	(L < 16)	1.0
	(L ≥ 16)	2.0

## STANDARD RATINGS

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

Cap (μF)	WV(V) (Code)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
0.47												5x11	8		
1												5x11	17		
2.2												5x11	23		
3.3												5x11	31		
4.7												5x11	35		
10								5x11	45	5x11	48	5x11	51	5x11	56
22								5x11	60	6.3x11	78	6.3x11	85	6.3x11	95
33								6.3x11	90	6.3x11	100	8x12	102	8x12	122
47						5x11	85	6.3x11	105	8x12	130	8x12	141	10x13	152
100		5x11	120	5x11	130	6.3x11	140	8x12	185	8x12	190	10x13	231	10x16	250
220		6.3x11	170	6.3x11	190	8x12	240	10x13	290	10x13	320	10x16	368	10x20	415
330		8x12	250	8x12	280	8x12	310	10x13	350	10x16	420	10x20	490	13x21	550
470		8x12	290	8x12	330	10x13	380	10x20	465	13x21	580	13x21	665	16x26	725
1000		10x13	490	10x16	580	10x20	670	13x21	830	13x25	1000	16x26	1080	16x32	1135
2200		10x20	830	13x21	970	13x25	1130	16x26	1210	16x32	1450	18x35	1695		
3300		13x 21	1060	13x25	1250	16x26	1350	16x32	1540	18x35	1830	18x40	2070		
4700		13x25	1310	16x26	1400	16x32	1570	18x35	1870	18x40	2150				
6800		16x26	1430	16x32	1690	18x35	1930	18x40	2120						
10000		16x32	1790	18x35	2010	18x40	2190								
15000		18x35	1980	18x40	2260										
22000		18x40	2290												

Cap (μF)	WV(V) (Code)	100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
1		5x11	18	6.3x11	18	6.3x11	18	6.3x11	18	6.3x11	18	10x13	18	10x16	20
2.2		5x11	28	6.3x11	28	6.3x11	28	8x12	35	10x16	35	10x20	35	13x21	36
3.3		5x11	34	8x12	34	8x12	35	10x13	50	10x20	50	13x21	50	13x25	48
4.7		5x11	40	8x12	43	10x13	50	10x16	55	13x21	55	13x21	60	16x26	60
10		6.3x11	66	10x13	75	10x16	80	10x20	100	13x25	100	13x25	100	16x32	110
22		8x12	112	10x20	130	10x20	140	13x21	170	16x32	180	16x32	190	16x36	210
33		10x13	155	13x21	170	13x25	200	13x25	225	18x35	230	18x35	240	18x35	280
47		10x16	190	13x25	230	13x25	250	16x26	270	18x35	320	18x35	370	18x40	380
100		13x21	310	16x26	350	16x32	480	16x36	500	18x40	550	18x40	660		
120										18x40	650	18x40	770		
220		16x26	540	18x35	640	18x40	810								
330		16x26	660												
470		16x32	880												
560				22x40	1300	22x50	1400								
680				22x50	1420	25x50	1550								
820						25x50	1700								

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