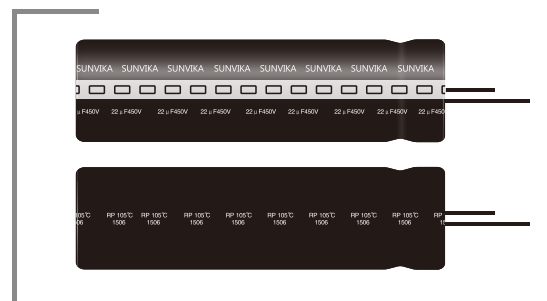


RP 系列 SERIES

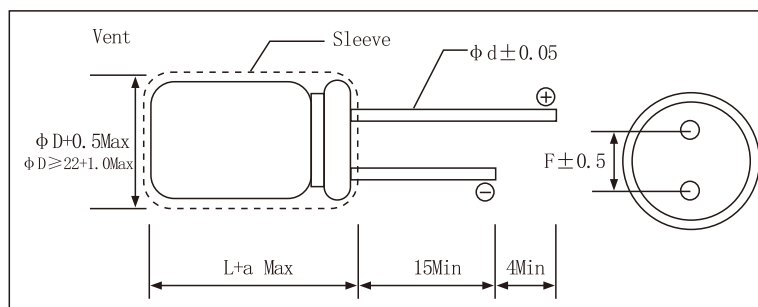
- 3000h at 105°C
- high-reliability and professional applications
- RoHS Compliant

◆ SPECIFICATION



Items	Characteristics																							
Operating Temperature Range(°C)	-25 ~ +105°C																							
Voltage range (V)	200~450v																							
Capacitance Range (μ F)	18 ~ 560 μ F																							
Capacitance Tolerance	± 20% (at20°C,120Hz)																							
leakage current (μ A)	After 5 minute at 20°C application of rated voltage , leakage current is not more than: I≤0.02CV+25 μ A C:Nominal Capacitance (μ F) V:Rated Voltage (V)																							
Dissipation Factor(Tan δ)	<table><tr><td>WV(V)</td><td>200</td><td>250</td><td>400</td><td>420</td><td>450</td></tr><tr><td>Tan δ (max)</td><td>0. 15</td><td>0. 15</td><td>0. 2</td><td>0. 20</td><td>0. 20</td></tr></table> (at 20°C,120Hz)						WV(V)	200	250	400	420	450	Tan δ (max)	0. 15	0. 15	0. 2	0. 20	0. 20						
WV(V)	200	250	400	420	450																			
Tan δ (max)	0. 15	0. 15	0. 2	0. 20	0. 20																			
Low Temperature Characteristics	<table><tr><td>Rated Voltage (V)</td><td colspan="2">200~250</td><td colspan="3">400~450</td></tr><tr><td>Z-25°C/Z+20°C</td><td colspan="2">3</td><td colspan="3">8</td></tr></table> (at 120Hz)						Rated Voltage (V)	200~250		400~450			Z-25°C/Z+20°C	3		8								
Rated Voltage (V)	200~250		400~450																					
Z-25°C/Z+20°C	3		8																					
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DCvoltage with the rated rippled current is applied for 3000 hours at 105°C <table><tr><td>Capacitance change</td><td colspan="5">Within ± 20%initial value</td></tr><tr><td>D.F.(Tan δ)</td><td colspan="5">Not more than 200% of specified value</td></tr><tr><td>leakage current</td><td colspan="5">Not more thanspecified value</td></tr></table>						Capacitance change	Within ± 20%initial value					D.F.(Tan δ)	Not more than 200% of specified value					leakage current	Not more thanspecified value				
Capacitance change	Within ± 20%initial value																							
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leakage current	Not more thanspecified value																							
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C afterexposing them for 1,000hours at 105°Cwithout voltage applied .Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4. <table><tr><td>Capacitance change</td><td colspan="5">Within ± 20%initial value</td></tr><tr><td>D.F.(Tan δ)</td><td colspan="5">Not more than 200% of specified value</td></tr><tr><td>leakage current</td><td colspan="5">Not more than 200% of specified value</td></tr></table>						Capacitance change	Within ± 20%initial value					D.F.(Tan δ)	Not more than 200% of specified value					leakage current	Not more than 200% of specified value				
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leakage current	Not more than 200% of specified value																							

◆ DIMENSIONS(mm)



ΦD	10	13	16~18
F	5	5	7.5
Φd	0.6	0.6	0.8
a	2	2	2

◆ Frequency Coefficient

Frequency		50Hz 60Hz	120Hz	1kHz	10kHz	100kHz
Coefficient	200~250V	0.8	1.0	1.20	1.30	1.40
	400~450V	0.8	1.0	1.25	1.40	1.50

◆ Temperature Coefficient

Temperature (°C)	+70	+85	+105
Coefficient	1.80	1.40	1.00

UR (Surge Voltage) Code	Rated Capacitance	Max Impedance 20°C 120Hz	Rated Ripple Current 105°C 120Hz	Size φ D × L
(V)	(μF)	(Ω)	(mA rms)	(mm)
200 (250)	82	2.42	400	10 × 30
	100	1.99	460	10 × 36
	120	1.66	530	10 × 40
	150	1.33	620	13 × 30
	180	1.11	700	13 × 36
	220	0.90	800	13 × 42
	270	0.74	870	16 × 36
	330	0.60	1010	16 × 40
		0.60	1010	18 × 32
	390	0.51	1130	18 × 36
	470	0.42	1270	18 × 40
	560	0.36	1390	18 × 45
	68	2.93	330	10 × 33
	82	2.43	420	10 × 40
250 (300)	100	1.99	480	10 × 51
	120	1.66	560	13 × 36
	150	1.33	650	13 × 42
	220	0.91	840	16 × 40
	27	9.83	240	10 × 30
	33	8.04	280	10 × 36
400 (450)	39	6.80	320	10 × 40
	47	5.65	370	13 × 30
		5.65	370	10 × 51
	56	4.74	420	13 × 36
	68	3.90	480	13 × 40
	82	3.24	520	13 × 51
	100	2.65	580	16 × 36
		2.65	580	13 × 51
	120	2.21	670	16 × 40
		2.21	670	18 × 36
	150	1.77	770	18 × 40
	180	1.47	880	18 × 45
420 (470)	22	12.06	200	10 × 30
	27	9.83	230	10 × 36
	33	8.04	270	10 × 40
	39	6.81	310	13 × 30
	47	5.65	360	13 × 36
		5.65	360	10 × 51
	56	4.74	430	13 × 40
		4.74	430	16 × 31
	68	3.90	490	16 × 36
		3.90	490	16 × 32
		3.90	490	13 × 42
	82	3.24	550	16 × 40
		3.24	550	16 × 36
		3.24	550	13 × 51
	100	2.65	610	16 × 40
		2.65	610	18 × 32
	120	2.21	660	18 × 36
	150	1.77	710	18 × 45
450 (500)	18	14.74	180	10 × 30
	22	12.06	210	10 × 36
	27	9.83	250	10 × 40
	33	8.04	280	13 × 30
	39	6.81	320	13 × 36
		6.81	320	10 × 51
	47	5.65	380	13 × 40
		5.65	380	16 × 31
		5.65	380	10 × 51
	53	5.01	410	10 × 51
	56	4.74	440	16 × 36
		4.74	440	16 × 32
	68	3.90	510	16 × 40
		3.90	510	16 × 36
		3.90	510	13 × 51
	82	3.24	570	16 × 40
		3.24	570	18 × 32
		3.24	570	13 × 51

Customer products are available on request