

RP

Wide temperature range standard Series

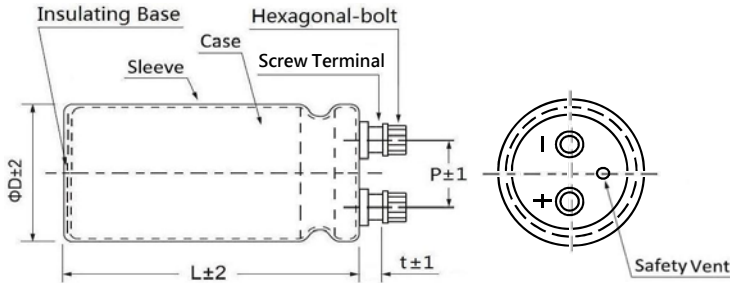
- Endurance: 105°C 2000hours
- Recommended Applications :UPS、service system、press working equipment、charging equipment、inverter、converter
- Corresponding product to RoHS



■ SPECIFICATIONS

Item	Characteristics	
Category Temperature Range	-40 ~ +105°C	-25 ~ +105°C
Rated Voltage Range	10~ 100VDC	160~450VDC
Capacitance Tolerance	± 20 % (120Hz, 20°C)	
Leakage Current (20°C)	I ≤ 0.02CV or 5mA whichever is greater. (After rated voltage applied for 5 minutes) I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)	
Dissipation Factor(MAX) (tan δ) (120Hz, 20°C)	Shown in the table of standard rating	
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz	
	Rated voltage(V)	10~100 160~450
	Z-25°C / Z+20°C	- 8
	Z-40°C / Z+20°C	12 -
Endurance	After applying rated voltage with ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements.	
	Capacitance change	Within ± 20% of initial value
	D.F. (tan δ)	Not more than 200% of specified value
	Leakage current	Not more than the specified value
Shelf Life	After placed at 105°C without voltage applied for 1000 hours, the capacitor shall meet the same requirements as Endurance.	

■ Dimensions [mm]



ΦD	P	t	Hexagonal-bolt
35	12.7	6.3	M5 × 0.8 × 10
51	21.8	6.3	M5 × 0.8 × 10
64	28.2	6.3	M5 × 0.8 × 10
77	31.4	5.8	M5 × 0.8 × 10
90	31.4	5.8	M5 × 0.8 × 10

■ Multiplier for Ripple Current

Freq. (Hz)	120	1K	10K	100K
W.V	coefficient			
10~35V	1.00	1.05	1.10	1.10
50~100V	1.00	1.10	1.15	1.15
160~450V	1.00	1.20	1.30	1.35
Temperature	55	70	85	105
coefficient	≤ 250V	2.50	2.00	1.40
	≥ 350V	2.00	1.50	1.20

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	tan δ	R.C (A/rms,105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	tan δ	R.C (A/rms,105°C) (120Hz)	
10 (13)	33000	35x50	0.80	3.72	160 (200)	47000	90x131	0.25	15.05	
	47000	35x60	0.80	4.81		1000	35x50	0.15	1.50	
	56000	35x70	0.80	5.61		1500	35x60	0.15	1.98	
	68000	35x80	0.80	6.57		2200	35x70	0.15	2.57	
	100000	51x70	1.00	7.67		3300	35x90	0.15	3.52	
	150000	51x90	1.00	10.46		4700	51x80	0.15	4.54	
	220000	64x96	1.20	13.53		5600	51x90	0.15	5.22	
330000	64x115	1.20	17.92	6800		64x96	0.15	5.89		
16 (20)	22000	35x50	0.70	3.25		8200	64x96	0.15	6.46	
	33000	35x60	0.70	4.31		10000	77x96	0.15	7.56	
	47000	35x80	0.70	5.84		15000	77x130	0.15	10.54	
	56000	35x90	0.70	6.72		22000	90x131	0.15	13.30	
	68000	51x70	0.90	6.66		200 (250)	1000	35x60	0.15	1.62
	100000	51x90	0.90	9.00			1500	35x70	0.15	2.12
	150000	64x96	1.00	11.22	2200		35x90	0.15	2.88	
	220000	64x115	1.00	14.69	3300		51x80	0.15	3.49	
330000	77x115	1.20	18.24	4700	51x90		0.15	4.38		
22000	35x60	0.35	4.59	5600	64x96		0.15	5.34		
33000	35x80	0.35	6.39	6800	64x115		0.15	6.37		
47000	35x90	0.35	8.04	8200	77x96		0.15	6.85		
25 (32)	56000	51x70	0.40	8.31	10000	77x115	0.15	8.16		
	68000	51x90	0.40	10.21	15000	90x131	0.15	10.98		
	100000	64x96	0.40	11.28	250 (300)	1000	35x70	0.15	1.73	
	150000	64x115	0.80	12.94		1500	35x90	0.15	2.38	
	220000	77x115	1.00	14.83		2200	51x70	0.15	2.94	
	330000	90x131	1.00	19.94		3300	51x90	0.15	4.01	
	15000	35x60	0.30	4.09		3900	64x96	0.15	4.46	
22000	35x80	0.30	5.63	4700		64x115	0.15	5.29		
33000	51x70	0.45	6.56	5600		77x96	0.15	5.94		
47000	51x80	0.45	8.29	6800		77x115	0.15	7.07		
35 (44)	56000	51x90	0.45	9.53	8200	77x130	0.15	8.18		
	68000	51x115	0.50	11.11	10000	77x155	0.15	9.76		
	100000	64x115	0.60	12.20	15000	90x157	0.15	11.87		
	150000	77x115	0.70	13.90	350 (400)	1000	51x65	0.15	2.40	
	220000	90x131	0.70	17.42		1500	51x70	0.15	3.03	
	8200	35x60	0.25	3.18		2200	51x96	0.15	4.21	
	10000	35x70	0.25	3.75		3300	64x96	0.15	5.47	
	15000	35x80	0.25	4.88		3900	64x115	0.15	6.43	
22000	51x70	0.35	5.57	4700		64x130	0.15	7.45		
33000	51x90	0.35	7.60	5600		77x115	0.15	7.94		
47000	64x96	0.40	9.48	6800		77x130	0.15	9.23		
50 (63)	56000	64x96	0.40	10.34	8200	77x155	0.15	10.95		
	68000	64x115	0.45	11.62	10000	90x157	0.15	12.25		
	100000	77x115	0.50	14.14	400 (450)	1000	51x70	0.15	2.47	
	150000	90x131	0.50	19.02		1500	51x90	0.15	3.38	
	8200	35x60	0.20	3.31		2200	64x96	0.15	4.46	
	8200	35x80	0.20	3.86		3300	64x130	0.15	6.24	
	10000	35x90	0.20	4.50		3900	64x155	0.15	7.34	
	15000	51x70	0.25	4.95		4700	77x130	0.15	7.97	
22000	51x90	0.25	6.68	5600		77x155	0.15	9.39		
33000	64x96	0.30	8.73	6800		90x157	0.15	10.94		
63 (79)	47000	64x115	0.35	10.43	8200	90x157	0.15	12.01		
	56000	77x96	0.40	10.96	10000	90x196	0.15	14.64		
	68000	77x115	0.40	13.03	450 (500)	1000	51x90	0.15	2.94	
	100000	90x131	0.40	17.36		1500	51x115	0.15	4.02	
	5600	35x90	0.15	4.59		2200	64x115	0.15	5.17	
	6800	51x70	0.15	5.16		3300	64x130	0.15	6.69	
	8200	51x80	0.15	6.00		3900	77x121	0.15	7.82	
	10000	51x90	0.15	6.97		4700	77x144	0.15	9.26	
15000	64x96	0.15	7.57	5600		90x145	0.15	11.06		
22000	77x96	0.25	8.69	6800		90x196	0.15	13.93		
33000	77x130	0.25	12.11							