

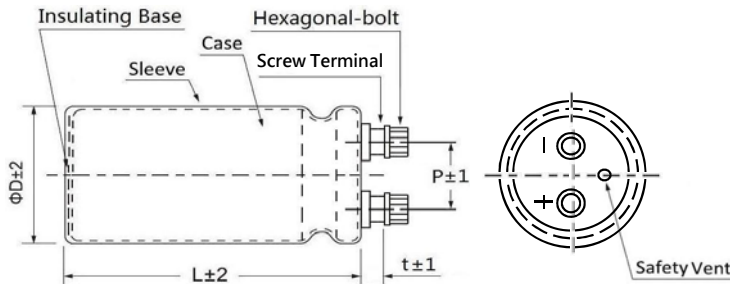


- Endurance: 85°C 2000hours
- Recommended Applications : UPS 、 service system 、 press working equipment 、 charging equipment 、 inverter 、 converter
- Corresponding product to RoHS

**SPECIFICATIONS**

Item	Characteristics					
Category Temperature Range	-25 ~ +85°C					
Rated Voltage Range	160 ~ 550VDC					
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 (µ A), C : Nominal capacitance (µ F), V : Rated voltage (V)					
Dissipation Factor(MAX) (tan δ) (120Hz ,20°C)	WV	160	200	250	350~450	500~550
	tan δ	0.15	0.15	0.15	0.15	0.20
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz					
	Rated voltage(V)	160~550				
	Z-25°C / Z+20°C	8				
Endurance	After applying rated voltage with ripple current for 2000 hours at 85°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 85°C without voltage applied for 1000 hours, the capacitor shall meet the same requirements as Endurance.					

**Dimensions [mm]**



ΦD	P	t	Hexagonal-bolt
51	22.2	6.3	M5 × 0.8 × 10
64	28.5	6.3	M5 × 0.8 × 10
77	31.8	5.8	M5 × 0.8 × 10
90	31.6	5.8	M6 × 1.0 × 10

**Multiplier for Ripple Current**

Freq. (Hz)	60	120	300	1K	≥ 10K
coefficient	0.70	1.00	1.10	1.30	1.40

Temperature	40	60	85
coefficient	1.89	1.67	1.00

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (A/rms 85°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (A/rms 85°C) (120Hz)
160 (200)	3900	51x75	0.15	7.51	400 (450)	18000	90x236	0.15	40.25
	4700	51x75	0.15	8.25		1000	51x75	0.15	4.76
	5600	51x96	0.15	10.02		1200	51x80	0.15	5.36
	6800	51x96	0.15	11.04		1500	51x96	0.15	6.48
	8200	51x115	0.15	13.15		1800	51x96	0.15	7.10
	10000	64x96	0.15	14.27		2200	51x130	0.15	9.00
	12000	64x96	0.15	15.64		2700	64x96	0.15	9.64
	15000	64x130	0.15	19.96		3300	64x115	0.15	11.53
	18000	64x130	0.15	21.87		3900	64x130	0.15	13.23
	22000	77x130	0.15	25.91		4700	77x96	0.15	11.90
	27000	77x130	0.15	28.71		5600	77x115	0.15	14.10
	33000	90x131	0.15	33.60		6800	77x130	0.15	16.23
39000	90x157	0.15	39.50	8200	77x155	0.15	19.32		
200 (250)	3300	51x75	0.15	6.91	8200	90x157	0.15	22.64	
	3900	51x75	0.15	7.51	10000	90x157	0.15	25.00	
	4700	51x96	0.15	9.18	12000	90x196	0.15	30.22	
	5600	51x115	0.15	10.86	15000	90x236	0.15	36.74	
	6800	51x130	0.15	12.65	450 (500)	820	51x75	0.15	4.31
	8200	64x96	0.15	12.93		1000	51x80	0.15	4.89
	10000	64x100	0.15	14.53		1200	51x96	0.15	5.8
	12000	77x96	0.15	16.82		1500	51x115	0.15	7.03
	15000	77x96	0.15	18.80		1800	54x130	0.15	8.14
	18000	77x130	0.15	23.44		2200	64x100	0.15	8.86
	22000	77x155	0.15	28.00		2700	64x115	0.15	10.43
	27000	90x131	0.15	30.39		3300	64x130	0.15	12.17
33000	90x157	0.15	36.33	3900		77x115	0.15	12.85	
250 (300)	2200	51x75	0.15	5.64		4700	77x130	0.15	14.87
	2700	51x75	0.15	6.25		5600	77x155	0.15	17.54
	3300	51x96	0.15	7.69		6800	90x157	0.15	20.62
	3900	51x115	0.15	9.07	8200	90x157	0.15	22.64	
	4700	64x96	0.15	9.79	10000	90x196	0.15	27.58	
	5600	64x96	0.15	10.68	12000	90x236	0.15	32.87	
	6800	64x115	0.15	12.73	500 (550)	470	51x75	0.20	2.96
	8200	64x115	0.15	13.98		680	51x96	0.20	3.97
	10000	64x130	0.15	16.30		820	51x115	0.20	4.72
	12000	77x115	0.15	18.15		1000	51x130	0.20	5.52
	15000	77x130	0.15	21.40		1000	64x96	0.20	5.34
	18000	77x155	0.15	25.33		1500	64x115	0.20	7.08
22000	90x157	0.15	29.67	1500		77x96	0.20	6.75	
350 (400)	1200	51x75	0.15	5.21		1800	64x130	0.20	8.18
	1500	51x80	0.15	5.99		2200	77x115	0.20	8.82
	1800	51x96	0.15	7.10		2700	77x155	0.20	11.13
	2200	51x96	0.15	7.85		3900	90x157	0.20	14.29
	2700	51x130	0.15	9.97		550 (600)	390	51x75	0.20
	3300	51x130	0.15	11.02	560		51x96	0.20	3.60
	3900	64x96	0.15	10.66	560		64x96	0.20	4.00
	4700	64x115	0.15	12.53	680		51x115	0.20	4.30
	4700	64x130	0.15	14.53	680		64x115	0.20	4.76
	5600	77x96	0.15	13.07	820		51x130	0.20	4.99
	5600	77x115	0.15	15.39	820		64x130	0.20	5.52
	6800	77x130	0.15	17.89	1200		77x96	0.20	6.04
8200	77x155	0.15	21.22	1500	77x115		0.20	7.28	
10000	90x157	0.15	25.00	1800	77x130		0.20	8.41	
12000	90x157	0.15	27.39	2200	77x155		0.20	10.05	
15000	90x196	0.15	33.78	3300	90x157		0.20	13.15	