

# EP

High voltage · Long life Series

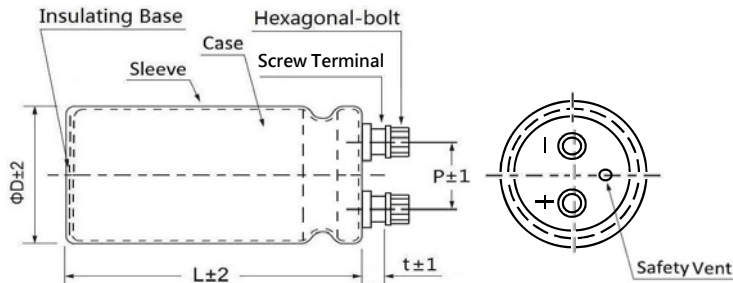
- Endurance: 105°C 10000hours
- Recommended Applications :UPS · service system · press working equipment · charging equipment · inverter · converter
- Corresponding product to RoHS



### ■ SPECIFICATIONS

Item	Characteristics			
Category Temperature Range	-40 ~ +105°C			
Rated Voltage Range	350 ~ 450VDC			
Rated Capacitance Range	1000 ~ 15000 µF			
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)	WV	350	400	450
	tan δ	0.15	0.15	0.15
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz			
	Rated voltage(V)	350~450		
	Z-25°C / Z+20°C	8		
Endurance	After applying rated voltage with ripple current for 10000 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
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(50)	120	300	1K	≥ 10K
coefficient	0.70	1.00	1.10	1.30	1.40

Temperature	40	60	85	105
coefficient	2.44	2.16	2.00	1.00

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (A/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (A/rms105°C) (120Hz)	
350 (400)	1000	51x75	0.15	5.6	400 (450)	3900	77x115	0.15	15.3	
	1200	51x75	0.15	6.1		4700	64x195	0.15	19.8	
	1500	51x96	0.15	7.6			77x130	0.15	17.7	
	1800	51x96	0.15	8.3		5600	64x195	0.15	21.6	
	2200	51x130	0.15	10.5			77x155	0.15	20.9	
	2700	64x96	0.15	10.9		6800	90x157	0.15	23.7	
	3300	64x115	0.15	13.1		8200	90x157	0.15	26.1	
	3900	64x130	0.15	15.0		10000	90x196	0.15	31.8	
	4700	64x155	0.15	17.8		450 (500)	12000	90x236	0.15	37.8
		77x115	0.15	16.8			1000	51x96	0.15	6.2
	5600	64x195	0.15	21.6	1200		51x115	0.15	7.4	
		77x130	0.15	19.3	1500		51x130	0.15	8.7	
	6800	77x144	0.15	22.3	1800		64x115	0.15	9.7	
	8200	90x157	0.15	26.1	2200		64x115	0.15	10.7	
	10000	90x157	0.15	28.8	2700		64x130	0.15	12.5	
12000	90x196	0.15	34.8	77x115			0.15	12.7		
15000	90x236	0.15	42.3	3300	64x155		0.15	14.9		
400 (450)	1000	51x75	0.15		5.6		77x130	0.15	14.8	
	1200	51x96	0.15	6.8	3900	64x195	0.15	18		
	1500	51x115	0.15	8.2	4700	77x155	0.15	19.1		
	1800	51x130	0.15	9.5	5600	77x195	0.15	23.20		
	2200	64x96	0.15	9.7		90x157	0.15	21.50		
	2700	64x115	0.15	11.8	6800	90x196	0.15	26.2		
	3300	64x130	0.15	13.8	8200	90x196	0.15	28.8		
	3900	64x155	0.15	16.2	10000	90x236	0.15	34.5		