

QP

Standard · High Ripple Series

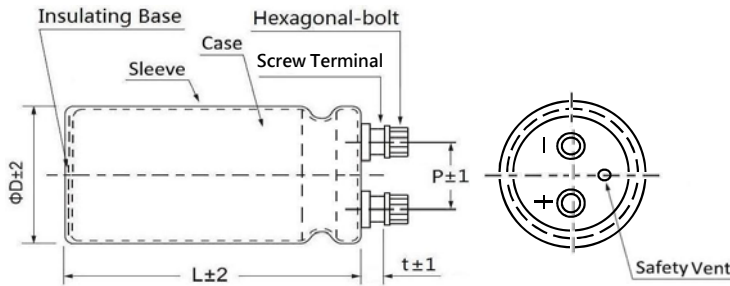
- Endurance: 105°C 2000hours
- Recommended Applications :UPS · service system · press working equipment · charging equipment · inverter · converter
- Corresponding product to RoHS



SPECIFICATIONS

Item	Characteristics					
Category Temperature Range	-25~ +105°C					
Rated Voltage Range	160 ~ 500VDC					
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	160	200	250	350	400~500
	tan δ	0.15	0.15	0.15	0.15	0.15
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz					
	Rated voltage(V)	160~500				
	Z-25°C / Z+20°C	8				
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
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	105
coefficient	2.44	2.16	2.00	1.00

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	tan δ	Ripple current (A/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap (μF)	Case size Φ DxL(mm)	tan δ	Ripple current (A/rms105°C) (120Hz)	
160 (200)	4700	51x80	0.15	6.81	350 (400)	8200	77x155	0.15	18.11	
	5600	51x96	0.15	8.05		10000	90x157	0.15	21.94	
	6800	64x96	0.15	8.80	400 (450)	1000	51x75	0.15	4.08	
	8200	64x96	0.15	9.66		1200	51x96	0.15	4.97	
	10000	77x96	0.15	11.34		1500	51x96	0.15	5.56	
	15000	77x130	0.15	15.81		2200	64x96	0.15	7.65	
	22000	90x131	0.15	19.87		3300	64x130	0.15	10.70	
200 (250)	3300	51x80	0.15	5.23		3900	64x155	0.15	12.59	
	4700	51x96	0.15	6.76		4700	77x130	0.15	14.16	
	5600	64x96	0.15	7.99		5600	77x155	0.15	16.70	
	6800	64x115	0.15	9.52		6800	90x157	0.15	16.83	
	8200	77x66	0.15	10.27		8200	90x157	0.15	18.48	
	10000	77x115	0.15	12.24	10000	90x196	0.15	22.52		
	15000	90x131	0.15	16.47	450 (500)	1000	51x96	0.15	4.54	
250 (300)	2200	51x75	0.15	4.53		1200	51x115	0.15	5.39	
	3300	51x96	0.15	6.18		1500	51x115	0.15	6.02	
	3900	64x96	0.15	6.69		2200	64x115	0.15	8.28	
	4700	64x115	0.15	7.94		3300	64x130	0.15	10.70	
	5600	77x96	0.15	8.91		3900	77x121	0.15	12.50	
	6800	77x115	0.15	10.60		4700	77x144	0.15	14.81	
	8200	77x130	0.15	12.27		5600	90x145	0.15	15.49	
	10000	77x155	0.15	14.65		6800	90x196	0.15	19.50	
	15000	90x157	0.15	17.81		8200	90x196	0.15	21.41	
350 (400)	1000	51x75	0.15	4.08	500 (550)	820	51x115	0.20	3.86	
	1200	51x75	0.15	4.47		1000	51x130	0.20	4.50	
	1500	51x96	0.15	5.56			64x96	0.2	4.37	
	1800	51x96	0.15	6.09		1200	64x115	0.20	5.18	
	2200	51x115	0.15	7.29		1500	64x130	0.20	6.12	
	2700	64x96	0.15	8.48			77x96	0.2	5.66	
	3300	64x115	0.15	10.13		1800	77x115	0.20	6.69	
	3900	64x115	0.15	11.02		2700	77x155	0.20	9.33	
	4700	64x130	0.15	12.77		1900	90x157	0.20	11.70	
	5600	77x130	0.15	15.46		6800	90x236	0.20	18.54	
	6800	77x130	0.15	17.03						