

WV(vdc) Parameter Cap.(μF)	100			160			200			250			315			350			400		
180													35x50	0.8	0.1	35x50	0.8	0.1	35x50	0.8	0.1
220													35x50	0.9	0.1	35x50	0.9	0.1	35x50	0.9	0.1
270										35x50	0.8	0.2	35x50	1	0.1	35x50	1	0.1	35x50	1	0.1
330							35x50	0.9	0.2	35x50	0.9	0.2	35x50	1.1	0.1	35x50	1.1	0.1	35x60	1.2	0.1
390							35x50	1	0.2	35x50	1	0.2	35x50	1.2	0.1	35x60	1.3	0.1	35x60	1.3	0.1
470							35x50	1.1	0.2	35x50	1.1	0.2	35x60	1.4	0.1	35x60	1.4	0.1	35x80	1.4	0.1
560				35x50	1.2	0.2	35x50	1.2	0.2	35x50	1.2	0.2	35x60	1.5	0.1	35x80	1.6	0.1	35x80	1.4	0.2
680				35x50	1.3	0.2	35x50	1.3	0.2	35x60	1.4	0.2	35x80	1.7	0.2	35x80	1.6	0.2	35x100	1.7	0.2
820				35x50	1.4	0.2	35x50	1.4	0.2	35x80	1.6	0.2	35x80	1.7	0.2	35x100	1.8	0.2	35x120	2	0.2
1000				35x50	1.6	0.2	35x60	1.7	0.2	35x80	1.6	0.2	35x100	2	0.2	35x120	2.2	0.2	50x80	2.2	0.2
1200				35x60	1.9	0.2	35x60	1.9	0.2	35x80	1.8	0.2	35x120	2.4	0.2	50x80	2.4	0.2	50x100	2.7	0.2
1500				35x60	2.1	0.2	35x80	2.3	0.2	35x100	2.1	0.2	50x80	2.7	0.2	50x100	3	0.2	50x120	3.3	0.2
1800	35x50	2.7	0.1	35x80	2.5	0.2	35x80	2.5	0.2	35x120	2.5	0.2	50x100	3.3	0.2	50x120	3.6	0.2			
2200	35x50	3	0.1	35x80	2.8	0.2	35x100	3	0.2	50x80	2.9	0.2	50x120	4	0.2	50x120	4	0.2	63.5x100	4.2	0.2
2700	35x60	3.5	0.1	35x100	3.3	0.2	35x120	3.6	0.2	50x100	3.5	0.2	50x120	4.4	0.2	63.5x100	4.6	0.2			
3300	35x80	4.2	0.1	35x120	3.8	0.2	50x80	4.1	0.2	50x120	4.2	0.2	63.5x100	5.1	0.2				63.5x120	5.5	0.2
3900	35x80	4.2	0.1	50x80	3.8	0.2	50x100	4.9	0.2	50x120	4.6	0.2	63.5x120	6	0.2	76x120	6.7	0.2			
4700	35x100	5	0.1	50x100	4.6	0.2	63.5x100	5.3	0.2	63.5x120	5.7	0.2	76x100	6.8	0.2				76x130	7.6	0.2
5600	35x100	5.4	0.1	50x100	5.1	0.2	63.5x100	5.8	0.2	63.5x120	6.3	0.2	76x120	8	0.2	76x130	8.3	0.2	89x140	9.4	0.2
6800	35x120	5.8	0.2	50x120	6.1	0.2	63.5x120	6.9	0.2	76x120	7.7	0.2	76x130	9.2	0.2	76x140	9.5	0.2	89x140	10	0.2
8200	50x80	6.4	0.2	63.5x100	7	0.2	63.5x120	7.6	0.2	76x120	8.4	0.2	89x140	11	0.2	89x140	11	0.2			
10000	50x100	7.8	0.2	63.5x120	8.4	0.2	76x120	9.3	0.2	76x140	10	0.2	89x140	13	0.2						
12000	50x120	9.3	0.2	76x100	9.4	0.2	76x120	10	0.2	89x140	12	0.2									
15000	50x120	10	0.2	76x120	11	0.2	76x140	12	0.2												
18000	63.5x100	10	0.2	76x140	13	0.2	89x140	13	0.3												
22000	63.5x120	13	0.2	89x140	15	0.3															
27000	76x120	14	0.3	89x140	16	0.3															
33000	76x120	15	0.3																		
39000	76x140	16	0.3																		
47000	89x140	19	0.3																		
56000	89x140	21	0.3																		

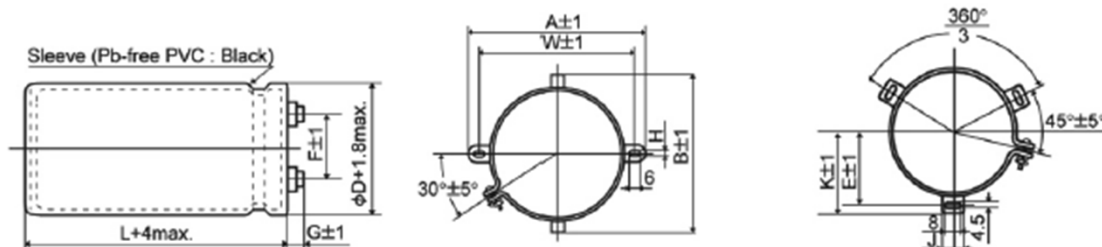
- Endurance with ripple current: 105°C 2000 hours



■ SPECIFICATIONS

Item	Characteristics	
Category Temperature Range	-40 ~ +105°C	-25 ~ +105°C
Voltage Range	10 ~ 100V.DC	160 ~ 400V.DC
Nominal Cap. Range	180 ~ 680000µF	
Capacitance Tolerance	± 20 % (at 120Hz, 20°C)	
Leakage Current	I=0.02CV or 5 µA Whichever is smaller (After 5 minutes). where, I: max leakage current(µA), C:Nominal capacitance (µF) (at 20°C)	
Dissipation Factor (MAX) (tanδ) (at 120Hz, 20°C)	Shall not exceed the values shown in the STANDARD RATINGS	
Low Temp.Impedance Stability at 120Hz	Capacitance change	10~100V.DC C(-40°C)/C(+20°C)≥0.6 160~400V.DC C(-25°C)/C(+20°C)≥0.7
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2000 hours at 105°C.	
	Capacitance change	≤ ±20% of the initial value
	Dissipation Factor	≤ 200% of the initial specified value
	Leakage Current	≤ the initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 105°C without voltage applied.	
	Capacitance change	≤ ±20% of the initial value
	Dissipation Factor	≤ 200% of the initial specified value
	Leakage Current	≤ the initial specified value

■ DIMENSION



Φ35 to Φ63.5:G=6

Φ76 to Φ89 :G=5

ΦD	A	B	W	H	F
35	58	44	48	3.5	12.7
50	78	64	68	4.5	22.4
63.5	90	76	80	4.5	28
76	104.5	90	93.5	4.5	31.5

ΦD	E	K	J	F
50	32.5	37	14	22.4
63.5	38.1	43.5	14	28
76	44.5	50	14	31.5
89	50.8	56.5	16	31.5

<Screw specifications
>
Plus hexagon-headed screw M5x0.8x10
Maximum screw tightening torque:3.23 Nm

■ RATED RIPPLE CURRENT MULTIPLIERS

W.V. (Vdc)	Case Diameter (mm)	Frequency(Hz)					
		50	120	300	1K	10K	50K
10 to 50	Φ35 to Φ89	0.95	1.00	1.03	1.05	1.09	1.12
68 & 80	Φ35	0.90	1.00	1.06	1.10	1.18	1.22
	Φ50 to Φ89	0.95	1.00	1.03	1.05	1.09	1.12
100	Φ35	0.82	1.00	1.12	1.22	1.30	1.33
	Φ50	0.90	1.00	1.06	1.10	1.18	1.22
	Φ63.5 to Φ89	0.95	1.00	1.03	1.05	1.09	1.12
160 to 250	Φ35	0.80	1.00	1.19	1.34	1.46	1.52
	Φ50 & Φ63.5	0.81	1.00	1.14	1.26	1.36	1.41
	Φ76 & Φ89	0.82	1.00	1.12	1.22	1.30	1.33
315 to 400	Φ35 to Φ89	0.80	1.00	1.19	1.34	1.46	1.52