Features

- Long life of 2,000 hours at 85℃.
- Screw terminal type.
- Suitable for switching power supply, computer, inverter, inotot-control.
- Having safety vents.

Characteristics

Item	Characteristics													
Operating temperature range	-40～+85℃							-25～+85℃						
Rated voltage range	10～100V							160～450V						
Capacitance range	3,300～470,000μF							220～15,000μF						
Capacitance tolerance (at20℃,120Hz)	±20%(M)													
Leakage current (I) (at 20℃)	After 5 minutes application of rated voltage, I≤0.01CV(μA) or 5mA, whichever is smaller. Where c: Nominal capacitance in μF, v: Rated voltage in V.													
Dissipation factor (Tan δ) (at 20℃,120Hz)	W.V. (v)	φ35	φ42	φ50	φ65	φ76	φ80	W.V. (v)	φ35	φ42	φ50	φ65	φ76	φ80
	10	0.75	0.85	1.00	1.30	1.50	1.50	63	0.20	0.30	0.30	0.30	0.40	0.40
	16	0.60	0.65	0.70	0.80	1.00	1.00	80	0.20	0.25	0.25	0.25	0.30	0.30
	25	0.40	0.45	0.50	0.70	0.80	0.80	100	0.15	0.20	0.20	0.25	0.25	0.25
	35	0.30	0.30	0.50	0.60	0.70	0.70	160/250	0.15	0.15	0.15	0.20	0.20	0.20
	50	0.25	0.30	0.30	0.50	0.60	0.60	350/450	0.20	0.20	0.20	0.25	0.25	0.25

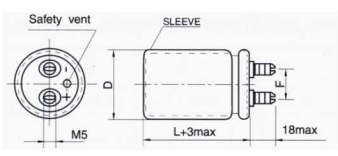
Low temperature characteristics (at120Hz)	W. V. (v)		10～100	160～450
	Capacitance ratio CT/C+20℃(max.)	C-25℃/C+20℃	≥0.7	≥0.7
		C-40℃/C+20℃	≥0.6	

Load life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage has been applied for 2,000 hours at 85℃.	
	Capacitance change	≤20% of the initial value
	tan δ	≤200% of the initial specified value
	I	≤The initial specified value

Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them at 85℃ for1,000 hours without voltage applied	
	Capacitance change	≤20% of the initial value
	tan δ	≤150% of the initial specified value
	I	≤200% of the initial specified value

Others	Satisfies characteristic W of JIS C5141

Dimensions



D±1.5	35			42		50			65		76		80	
L	50	60	80	60	80	60	80	100	100	120	100	120	100	120
F±0.5	14			15		22			28		32		35	

Case Size DxL(mm) And Maximum Ripple Current (A rms/at 85℃,120Hz)

W.V.(v) / Cap.(μF)	10		16		25		35		50		63		80	
	D×L	I～	D×L	I～	D×L	I～	D×L	I～	D×L	I～	D×L	I～	D×L	I～
3,300													35×50	2.5
4,700													35×60	3.2
6,800									35×50	3.2	35×50	3.5	35×80	4.3
10,000							35×50	3.5	35×60	4.1	35×60	4.6	42×80	5.2
15,000					35×50	3.7	35×60	4.6	35×80	5.8	35×80	6.4	50×80	7.0
22,000			35×50	3.7	35×60	4.8	35×80	6.4	42×80	7.0	42×80	7.0	50×100	9.4
33,000	35×50	4.0	35×60	4.8	42×60	6.2	42×80	8.6	50×80	9.5	50×80	9.5	65×100	12.5
47,000	35×60	5.2	42×60	6.2	42×80	8.4	42×100	11.4	50×100	12.5	50×100	12.5	65×120	17.5
68,000	35×80	7.1	42×80	8.4	50×80	10.6	50×80	10.6	50×120	16.3	65×100	17.4		
100,000	42×80	8.9	50×80	10.8	50×100	14.1	50×120	15.3	65×120	17.7	65×120	22.9		
150,000	50×80	11.1	50×100	14.6	65×100	17.0	65×120	19.8						
220,000	50×100	14.8	65×100	19.2	65×120	22.2								
330,000	65×100	18.5	80×100	23.7										
470,000	76×100	22.4												

W.V.(v) / Cap.(μF)	100		160		200		250		350		400		450	
	D×L	I～	D×L	I～	D×L	I～	D×L	I～	D×L	I～	D×L	I～	D×L	I～
220									35×50	0.6	35×50	0.6	35×50	0.6
330							35×50	0.9	35×50	0.8	35×60	0.8	35×60	0.8
470					35×50	1.1	35×50	1.1	35×60	1.0	35×80	1.1	35×80	1.1
680			35×50	1.3	35×50	1.3	35×60	1.4	35×80	1.4	42×80	1.5	42×80	1.5
1,000			35×50	1.6	35×60	1.7	35×80	1.9	42×80	1.8	50×80	2.0	50×80	2.0
1,500			35×60	2.1	35×80	2.3	42×80	2.6	50×80	2.5	50×100	2.7	50×100	2.7
2,200			42×60	2.8	42×80	3.1	50×80	3.5	50×100	3.3	65×100	3.4	65×100	3.4
3,300	35×60	3.1	50×60	3.8	50×80	4.2	50×100	4.7	65×100	4.2	65×120	4.6	76×120	5.0
4,700	35×80	4.2	50×80	5.1	50×100	5.6	65×100	5.6	76×100	5.5	76×120	5.9	80×150	6.7
6,800	42×80	4.8	50×100	6.7	65×100	6.8	65×120	7.3	80×120	7.4	80×150	8.1		
10,000	50×80	6.4	65×100	8.2	65×120	8.9	76×120	9.7	80×150	9.8				
15,000	50×100	8.7	76×100	11.0	76×120	11.9								
22,000	50×120	11.4												
33,000	65×120	15.9												

Ripple Current Multipliers

Frequency multiplying factor

W. V. (v)	φD		Freq.(Hz)					
			50	60	120	360	1K	≥10K
10～50	35	42	0.95	0.96	1.00	1.03	1.04	1.04
	50	65	0.97	0.98	1.00	1.02	1.03	1.03
	76	80	0.98	0.99	1.00	1.02	1.03	1.03
63～100	35	42	0.90	0.94	1.00	1.09	1.03	1.15
	50	65	0.93	0.97	1.00	1.06	1.10	1.13
	76	80	0.95	0.98	1.00	1.03	1.08	1.08
160～250	35	42	0.71	0.79	1.00	1.10	1.15	1.21
	50	65	0.83	0.88	1.00	1.08	1.13	1.20
	76	80	0.85	0.90	1.00	1.06	1.11	1.20
350～450	35	42	0.65	0.74	1.00	1.10	1.16	1.22
	50	65	0.81	0.87	1.00	1.08	1.13	1.21
	76	80	0.81	0.87	1.00	1.08	1.13	1.21

Temperature multiplying factor

Temperature(℃)	45	60	70	85
Factor	1.46	1.42	1.3	1.00

Mounting clamp

φD	A	B	W	H
35	62	44	50	3.2
42	64	50	54	3.5
50	80	64	68	4.5
65(63.5)	93	76	81	4.5

φD	E	K	J
50	32.5	37.0	14
65(63.5)	38.0	43.5	14
76	44.5	50.5	14
80	46.5	53.0	16