

Features

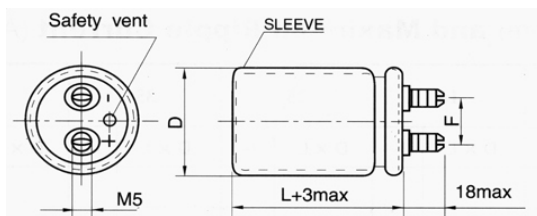
- Long life of 2,000 hours at 105°C.
- Screw terminal type, wide temperature range.
- Suitable for computer, communication power and inverters.
- Having safety vents.



Characteristics

Item	Characteristics		
Operating temperature range	-40~+85°C	-25~+85°C	
Rated voltage range	10~100V	160~450V	
Capacitance range	1,800~470,000 μ F	220~18,000 μ F	
Capacitance tolerance (at 20°C, 120Hz)	±20%(M)		
Leakage current(I) (at 20°C)	After 5 minute application of rated voltage. I ≤ 0.01CV (μ A) or 5mA, whichever is smaller. Where C: Nominal capacitance in μ F		
Dissipation factor(Tan δ) (at 20°C, 120Hz)	According to the below		
Low temperature characteristics (at 120Hz)	W. V. (v)		10~100
	Capacitance ratio CT/C+20°C(max.)	C-25°C/C+20°C	≥0.7
		C-40°C/C+20°C	≥0.61
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with rated ripple current for 2,000 hours at 105°C.		
	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°C after exposing them at 105°C for 1,000 hours without voltage applied		
	Capacitance change	≤10% of the initial value	
	tan δ	≤150% of the initial specified value	
	I	≤150% of the initial specified value	
Others	Satisfies characteristic W of JIS C5141		

Dimensions



D ± 1.5	35			42		50			65		76		
L	50	60	80	80	100	80	100	120	100	120	100	120	140
F ± 0.5	14			15		22			28		32		



**Case Size DxL(mm), D.F. And Maximum Ripple Current
(A rms/at 105°C,120Hz)**

W.V.(v) Cap.(μ F)	10			16			25			35			50		
	D×L	D.F.	I~	D×L	D.F.	I~	D×L	D.F.	I~	D×L	D.F.	I~	D×L	D.F.	I~
3,900													35×50	0.20	2.7
4,700													35×50	0.20	2.9
5,600													35×50	0.20	3.2
6,800													35×50	0.20	3.5
8,200										35×50	0.30	3.2	35×60	0.20	3.7
10,000										35×50	0.30	3.5	35×80	0.25	4.7
12,000							35×50	0.25	3.5	35×60	0.30	4.1	35×80	0.25	5.1
15,000							35×50	0.35	4.0	35×60	0.30	4.6	35×80	0.25	5.8
18,000				35×50	0.40	4.1	35×60	0.35	4.7	35×80	0.30	5.8	42×80	0.25	7.0
22,000				35×50	0.40	4.5	35×60	0.35	5.2	35×80	0.30	6.4	42×100	0.25	8.5
27,000	35×50	0.45	4.7	35×60	0.40	5.4	35×80	0.35	6.5	42×80	0.30	7.8	42×100	0.25	9.4
33,000	35×50	0.50	4.9	35×60	0.45	5.6	35×80	0.40	6.7	42×100	0.30	9.5	50×100	0.25	11.5
39,000	35×60	0.50	5.8	35×80	0.45	6.9	42×80	0.40	8.1	42×100	0.35	9.6	50×120	0.25	13.5
47,000	35×80	0.50	7.2	35×80	0.50	7.2	42×100	0.40	9.8	50×100	0.35	11.6	50×120	0.30	13.6
56,000	35×80	0.50	7.2	42×80	0.50	8.7	42×100	0.45	10.1	50×100	0.40	11.8	65×100	0.35	14.6
68,000	42×80	0.50	8.7	42×80	0.55	9.1	50×100	0.45	12.3	50×120	0.40	14.1	65×120	0.35	17.5
82,000	42×80	0.65	9.2	42×100	0.55	11.1	50×100	0.50	12.8	65×100	0.45	15.6	65×120	0.40	19.6
100,000	42×100	0.65	11.3	42×100	0.65	11.3	50×120	0.50	15.3	65×120	0.45	18.7	76×120	0.45	20.4
120,000	42×100	0.75	11.5	50×100	0.65	13.6	65×100	0.65	15.7	65×120	0.55	18.5	76×120	0.45	22.4
150,000	50×100	0.80	13.7	50×120	0.70	15.9	65×120	0.65	19.0	76×120	0.65	20.8			
180,000	50×120	0.80	16.3	50×120	0.80	16.3	65×120	0.80	18.8	76×120	0.80	20.5			
220,000	50×120	0.85	17.4	65×120	0.85	20.2	76×120	0.85	22.0						
270,000	65×120	1.00	20.6	65×120	1.00	20.6	76×120	1.00	22.5						
330,000	76×120	1.20	20.8	76×120	1.30	21.8									
390,000	76×120	1.50	22.1	76×120	1.50	22.1									
470,000	76×120	1.80	22.1	76×140	1.60	25.1									



TMCE22 Screw Terminal Aluminum Electrolytic Capacitor 105°C

W.V.(v) Cap.(μF)	63			80			100			160			200			
	D×L	D.F.	I~	D×L	D.F.	I~	D×L	D.F.	I~	D×L	D.F.	I~	D×L	D.F.	I~	
330													35×50	0.15	0.8	
470													35×50	0.15	0.9	
560													35×50	0.15	1.0	
680											35×50	0.15	1.3	35×50	0.15	1.1
1,000											35×50	0.15	1.6	35×60	0.15	1.5
1,200											35×60	0.15	1.8	35×60	0.15	1.6
1,500											35×60	0.15	2.1	35×80	0.15	2.0
1,800							35×50	0.10	2.6	35×80	0.15	2.6	35×80	0.15	2.2	
2,200				35×50	0.15	2.3	35×50	0.10	2.8	35×80	0.15	2.8	42×80	0.15	2.7	
2,700	35×50	0.20	2.2	35×50	0.15	2.6	35×60	0.10	3.4	42×80	0.15	3.5	42×100	0.15	3.3	
3,300	35×50	0.20	2.5	35×50	0.15	2.8	35×60	0.10	4.3	42×100	0.20	3.7	42×100	0.15	3.3	
3,900	35×50	0.20	2.7	35×60	0.15	3.3	35×80	0.12	4.2	42×100	0.20	4.0	50×100	0.15	3.9	
4,700	35×50	0.20	2.9	35×60	0.15	3.7	35×80	0.12	5.1	50×100	0.20	4.8	65×100	0.20	5.0	
5,600	35×60	0.20	3.5	35×80	0.15	4.5	42×80	0.12	5.6	50×100	0.20	5.3	65×100	0.20	5.5	
6,800	35×60	0.20	3.8	35×80	0.15	5.0	42×100	0.15	6.1	50×120	0.20	6.3	65×120	0.20	6.5	
8,200	35×80	0.20	4.8	42×80	0.20	5.3	42×100	0.15	6.7	65×100	0.20	7.4	65×120	0.20	7.2	
10,000	35×80	0.20	5.3	42×100	0.20	6.4	50×100	0.15	8.2	65×120	0.20	8.9	76×120	0.20	8.7	
12,000	42×80	0.25	5.7	42×100	0.20	7.0	50×120	0.15	9.7	76×100	0.20	9.8	76×120	0.20	9.5	
15,000	42×100	0.25	7.0	50×100	0.20	8.7	50×120	0.15	10.8	76×120	0.20	11.9				
18,000	42×100	0.25	7.7	50×120	0.20	10.3	65×100	0.20	11.0	76×140	0.20	13.9				
22,000	50×100	0.25	9.4	50×120	0.20	11.4	65×120	0.20	13.1							
27,000	50×120	0.25	11.3	65×100	0.25	12.0	65×120	0.25	14.2							
33,000	50×120	0.25	12.5	76×100	0.25	14.6	76×120	0.25	15.7							
39,000	35×100	0.30	13.2	76×100	0.30	14.4	76×140	0.25	18.3							
47,000	65×120	0.30	15.7	76×120	0.30	17.1										
56,000	65×120	0.30	17.1	76×120	0.30	18.7										
68,000	76×120	0.35	19.1													
82,000	76×140	0.40	21.0													

W.V.(v) Cap.(μF)	250			315			350			400		
	D×L	D.F.	I~	D×L	D.F.	I~	D×L	D.F.	I~	D×L	D.F.	I~
220				35×50	0.10	0.9	35×50	0.10	0.9	35×50	0.10	0.9
330	35×50	0.15	0.9	35×50	0.10	1.1	35×50	0.10	1.1	35×60	0.10	1.2
470	35×50	0.15	1.1	35×60	0.10	1.4	35×60	0.10	1.4	35×80	0.10	1.6
560	35×50	0.15	1.2	35×60	0.10	1.5	35×60	0.10	1.5	35×80	0.10	1.8
680	35×60	0.15	1.4	35×80	0.10	1.9	35×80	0.15	1.6	42×80	0.15	1.7
1,000	35×80	0.20	1.7	42×80	0.15	2.1	42×100	0.15	2.3	42×100	0.15	2.3
1,200	35×80	0.20	1.8	42×100	0.15	2.6	42×100	0.15	2.6	50×100	0.15	2.8
1,500	42×80	0.20	2.2	42×100	0.15	2.9	50×100	0.15	3.2	50×100	0.15	3.2
1,800	42×100	0.20	2.7	50×100	0.15	3.5	50×120	0.15	3.8	65×100	0.15	4.0
2,200	42×100	0.20	3.0	50×120	0.15	4.2	50×120	0.15	4.2	65×100	0.15	4.4
2,700	50×100	0.20	3.7	50×120	0.15	4.6	65×100	0.15	4.9	65×120	0.15	5.3
3,300	50×120	0.20	4.4	65×100	0.15	5.4	65×120	0.15	5.9	76×120	0.15	6.4
3,900	50×120	0.20	4.8	65×120	0.15	6.4	76×120	0.15	7.0	76×140	0.15	7.5
4,700	65×100	0.20	6.1	76×100	0.15	7.1	76×120	0.15	7.7	76×140	0.15	8.2
5,600	65×120	0.20	6.6	76×120	0.15	8.4	76×140	0.15	8.9			
6,800	76×120	0.20	8.0	76×140	0.15	9.9						
8,200	76×120	0.20	8.8									

Ripple Current Multipliers

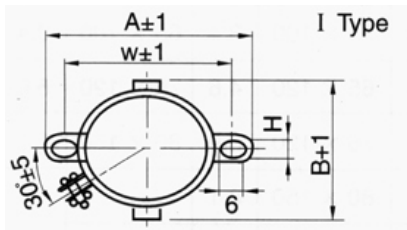
Frequency multiplying factor

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	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	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	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	0.85	0.90	1.00	1.06	1.11	1.20

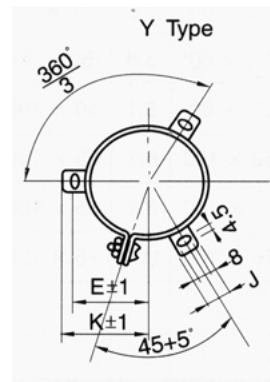
Temperature multiplying factor

Temperature(°C)	45	60	70	85	105
Factor	2.47	2.37	2.17	1.67	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