



TMCE43 Standard Aluminum Electrolytic Capacitor 130℃

Features

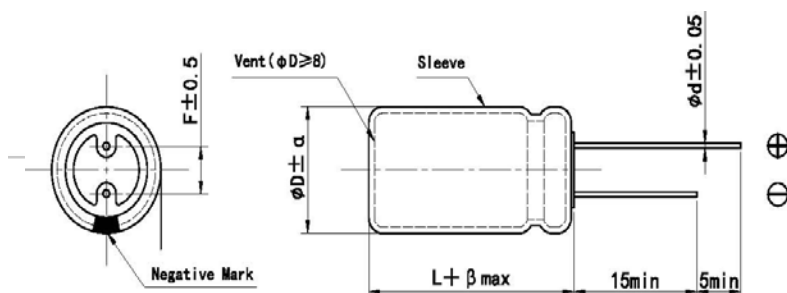
130℃, 1000 ~ 4000 hours, long life, low impedance.
suitable bulb-shaped fluorescent lamps with electronic ballast circuit power.



Specifications

Items	Characteristics										
Rated Voltage Range	10V~100V. DC					200, 400 V. DC					
Operating Temperature	-40℃~130℃					-25℃~130℃					
Capacitance Tolerance	±20%(M) (25℃, 100/120Hz)										
Leakage Current	I≤0.01C _R U _R or 3 ((At 25℃ after 2 minutes)										
	C _R : Nominal capacitance (μF) ; U _R : Rated voltage (V)										
Dissipation Factor tan δ	(25℃, 100/120Hz)										
	U _R (V)	10	16	25	35	50	63	100	200	400	
	tg δ	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	When nominal capacitance exceeds 1000 μ F, add 0.02 to the value above for each 1000 μ F increase.										
	Impedance ratio at 100Hz or 120Hz shall not exceed the values given in the below table.										
	U _R (V)	10	16	25	35	50	63	100	200	400	
	Z _{-25℃} /Z _{25℃}	/	/	/	/	/	/	/	3	6	
	Z _{-40℃} /Z ₂₅	6	4	3	3	3	3	3	/	/	
Load Life	When nominal capacitance exceeds 1000 μ F, add 1 to the value above for each 1000 μ F increase.										
	After application of rated voltage with rated ripple current for the 2000hours at +125℃, the capacitors shall meet the following limits.										
		10~100WV				200, 400WV					
	Capacitance	≤ ±30% of the initial				≤ ±20% of the initial				Diameter	Duration (h)
	D.F. (tan δ)	≤ 300% of the initial				≤200% of the initial					
Leakage	≤ the Initial specified				≤ the Initial specified				10~100WV	200, 400WV	
									6.3	/	
									8~10	2000	
Others									13 Above	4000	
									/		
Q/RME 140-2010, GB/T 5993-2003											

Dimensions



mm						
D	6.3	8	10	13	16	18
d	0.5		0.6		0.8	
F	2.5	3.5	5.0		7.5	
α	0.5					
β	1.0	2.0				



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Size and Max Ripple Current

Voltage (V)	Capacitance (μF)	Size ΦD×L (mm)	tan δ	Z (mArms, (Ω,25°C, 100KHz))	I _R (mArms,130°C, 100KHz)
10	330	8×12	0.20	0.22	360
	470	10×12	0.20	0.15	620
	1000	10×20	0.20	0.073	960
	2200	13×25	0.22	0.040	1430
	3300	16×25	0.24	0.038	1900
	4700	16×30	0.26	0.034	2300
16	330	8×12	0.16	0.22	360
	470	10×12	0.16	0.15	620
	1000	10×20	0.16	0.073	960
	2200	13×25	0.18	0.040	1430
	3300	16×30	0.20	0.034	2300
	4700	16×35	0.22	0.031	2550
25	220	8×12	0.14	0.22	360
	330	10×12	0.14	0.15	620
	470	10×16	0.14	0.10	800
	1000	13×20	0.14	0.055	1100
	2200	16×30	0.16	0.034	2300
	3300	16×35	0.18	0.031	2550
35	100	8×12	0.12	0.22	360
	220	10×12	0.12	0.15	620
	330	10×16	0.12	0.10	800
	470	10×20	0.12	0.073	960
	1000	13×25	0.12	0.040	1430
	2200	16×35	0.14	0.031	2550
	3300	18×35	0.16	0.028	2800

Voltage (V)	Capacitance (μF)	Size ΦD×L (mm)	tan δ	Z (mArms, (Ω,25°C, 100KHz))	I _R (mArms,130°C, 100KHz)
50	4.7	8×12	0.10	0.85	100
	10	8×12	0.10	0.60	200
	22	8×12	0.10	0.35	260
	33	8×12	0.10	0.28	300
	47	8×12	0.10	0.28	300
	100	10×12	0.10	0.18	520
	220	10×20	0.10	0.082	890
	330	13×20	0.10	0.065	1000
	470	13×25	0.10	0.051	1200
	1000	16×30	0.10	0.037	2180
63	2200	18×40	0.12	0.029	2800
	33	8×12	0.09	0.40	250
	47	10×12	0.09	0.27	400
	100	10×16	0.09	0.20	450
	220	13×20	0.09	0.10	820
	330	13×25	0.09	0.072	1000
	470	16×25	0.09	0.069	1500
	1000	16×30	0.09	0.056	1850
	1500	18×40	0.09	0.043	2350
100	4.7	8×12	0.08	1.3	100
	10	8×12	0.08	1.0	200
	22	8×12	0.08	0.67	220
	33	10×12	0.08	0.45	260
	47	10×16	0.08	0.33	330
	100	13×20	0.08	0.17	670
	220	16×25	0.08	0.13	1100
	330	16×30	0.08	0.10	1300
	470	18×30	0.08	0.092	1600

◆ Size and Max Ripple Current

Voltage (V)	Capacitance (μF)	Size ΦD×L (mm)	tan δ	I _R (mArms, 130°C, 100KHz)
200	4.7	6.3×11	0.15	100
	4.7	8×12	0.15	120



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	5.6	8×12	0.15	130
	5.6	8×16	0.15	180
	6.8	8×12	0.15	130
	6.8	8×16	0.15	180
	10	8×16	0.15	200
	10	8×20	0.15	240
	15	8×16	0.15	200
	15	8×20	0.15	240
	22	8×20	0.15	240
	22	10×16	0.15	240
	33	10×20	0.15	320
400	1	6.3×11	0.20	60
	1	8×12	0.20	65
	1.5	8×12	0.20	75
	1.5	8×16	0.20	80
	1.8	8×12	0.20	75
	1.8	8×16	0.20	85
	2.2	8×12	0.20	75
	2.2	8×16	0.20	90
	2.2	8×20	0.20	110
	2.7	8×16	0.20	95
	2.7	8×20	0.20	115
	3.3	8×16	0.20	100
	3.3	8×20	0.20	120
	4.7	8×20	0.20	120
	4.7	10×16	0.20	125
	5.6	10×16	0.20	130
	5.6	10×20	0.20	145
	6.8	10×20	0.20	150

Ripple Current Multiplier

Frequency Coefficient

10V~100V:

Frequency (Hz)	50/60	100/120	1K	10K	100K
4.7μF	0.35	0.42	0.60	0.80	1.00
10μF~330μF	0.45	0.55	0.75	0.90	1.00
47μF~330μF	0.60	0.70	0.85	0.95	1.00
470μF~1500μF	0.65	0.75	0.90	0.98	1.00
2200μF~4700μF	0.75	0.80	0.95	1.00	1.00

200WV, 400WV

Frequency (Hz)	100/120	1K	10K	100K
4.7μF	0.42	0.60	0.80	1.00
10μF~330μF	0.55	0.75	0.90	1.00
47μF~330μF	0.70	0.85	0.95	1.00