



TMCE30 Long Life Aluminum Electrolytic Capacitor 105C

Features

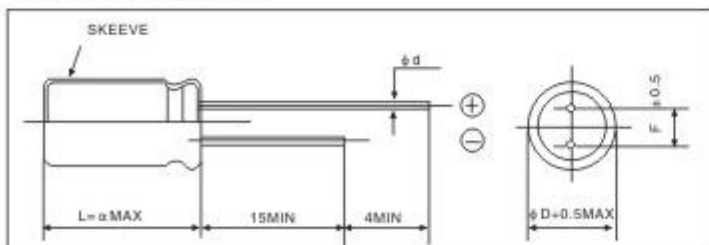
- 105°C, High Ripple Current, Long Life
- Load life : 5000~10000hours or more
- For Electronic Ballast
- High Ripple Current



SPECIFICATIONS

Items	Characteristics																											
Category Temperature Range	-40 ~ +105℃																											
Rated Voltage Range	160V ~ 450V.DC																											
Nominal Capacitance Range	1~220 μ F																											
Capacitance Tolerance	± 20% (120Hz,+20℃)																											
Leakage Current(MAX)	I=0.01CV or 3(μA) after 2 minutes with rated working voltage at20℃																											
Dissipation Factor(MAX) Tan δ (20℃, 120Hz)	<table><tr><td>Rated Voltage(V)</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Tan δ</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.20</td><td>0.20</td><td>0.20</td></tr></table>							Rated Voltage(V)	160	200	250	350	400	450	Tan δ	0.15	0.15	0.15	0.20	0.20	0.20							
Rated Voltage(V)	160	200	250	350	400	450																						
Tan δ	0.15	0.15	0.15	0.20	0.20	0.20																						
Load Life	After applying rated voltage with max ripple current for 5000 hrs at 105℃,the capacitors shall meet the following requirements <table><tr><td>Capacitance Change</td><td colspan="6">Within ± 20% of the initial value</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Not more than 200% of the specified value</td></tr><tr><td>Leakage Current</td><td colspan="6">Not more than the specified value</td></tr></table>							Capacitance Change	Within ± 20% of the initial value						Dissipation Factor	Not more than 200% of the specified value						Leakage Current	Not more than the specified value					
Capacitance Change	Within ± 20% of the initial value																											
Dissipation Factor	Not more than 200% of the specified value																											
Leakage Current	Not more than the specified value																											
Shelf Life	After Leaving capacitors under no load at 105℃ for 1000hrs,they meet the characteristic requirements listed at right <table><tr><td>Capacitance change</td><td colspan="6">Within ± 20% of the initial value</td></tr><tr><td>Tan δ</td><td colspan="6">≦ 200% of initial specified value</td></tr><tr><td>Leakage current</td><td colspan="6">≦ 200% of initial specified value</td></tr></table>							Capacitance change	Within ± 20% of the initial value						Tan δ	≦ 200% of initial specified value						Leakage current	≦ 200% of initial specified value					
Capacitance change	Within ± 20% of the initial value																											
Tan δ	≦ 200% of initial specified value																											
Leakage current	≦ 200% of initial specified value																											
Low Temperature Stability Impedance Rate (MAX)	<table><tr><td>Rated Voltage(V)</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Z-25℃/Z+20℃</td><td>3</td><td>3</td><td>3</td><td>5</td><td>5</td><td>5</td></tr><tr><td>Z-40℃/Z+20℃</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td></tr></table>							Rated Voltage(V)	160	200	250	350	400	450	Z-25℃/Z+20℃	3	3	3	5	5	5	Z-40℃/Z+20℃	6	6	6	6	6	6
Rated Voltage(V)	160	200	250	350	400	450																						
Z-25℃/Z+20℃	3	3	3	5	5	5																						
Z-40℃/Z+20℃	6	6	6	6	6	6																						
Other	JISC-5141 EIAJ RC-2372																											

CASE SIZE TABLE



ϕD	8	10	13	16	18
F	3.5	5.0	5.0	7.5	7.5
ϕd	0.5	0.6	0.6	0.8	0.8
α	$L \leq 16: \alpha = 1.5$ $L \geq 20: \alpha = 2.0$				

RIPPLE CURRENT MULTIPLIER

Frequency(Hz)	120	1K	10K	100K ~
~ 180	0.40	0.75	0.90	1.00
220 ~	0.50	0.85	0.94	1.00



TMCE30 Long Life Aluminum Electrolytic Capacitor 105C

Cap(μ F)	Voltage Code	160V(2C)		200V(2D)		250V(2E)	
		Size	Ripple	Size	Ripple	Size	Ripple
4.7	475					8x12	160
6.8	685					10x13	250
10	106	10x16	320	10x16	320	10x16	320
22	226	10x20	500	10x20	500	10x20	500
33	336	10x20	650	10x20	650	13x21	800
47	476	10x20	750	13x21	980	13x21	980
68	686	13x21	1180	13x25 16x20	1300	16x20	1300
82	826			16x20	1380	16x20	1380
100	107	13x25 16x20	1420	16x20	1420	16x25	1530
150	157	16x25	1890	16x25	1890	16x25	1940
220	227	18x25	2370				

Cap(μ F)	Voltage Code	350V(2V)		400V(2G)		450V(2W)	
		Size	Ripple	Size	Ripple	Size	Ripple
1	105			8x12 10x13	60 70		
1.5	155			8x12 10x13	90 100		
1.8	185			8x12 10x13	95 120		
2.2	225			8x12 10x13	95 140		
3.3	335			10x13 10x16	150 180		
4.7	475	10x13	150	10x16	220	10x20	220
5.6	565	10x13	180	10x16	250	10x20	250
6.8	685	10x16	280	10x16	280	10x20	280
10	106	10x20	350	10x20	350	13x21	450
15	156			13x21	550	13x25	600
22	226	13x21	650	13x25 16x20	760	16x20	730
33	336	16x20	900	16x20	900	16x25	980
47	476	16x20	1080	16x25 18x20	1180	18x25	1200
68	686	18x25	1470	18x25	1470		
82	826	18x25	1530				

Maximum Allowable Ripple Current(mA rms)at 105°C 100KHz