

ALUMINUM ELECTROLYTIC CAPACITOR

LOAD LIFE OF 2000H 105°C

CD294



SPECIFICATIONS

Item	Performance Characteristics	
Temperature Range	-40 ~ +105°C	-25 ~ +105°C
Rated Voltage Range	16 ~ 400V	160 ~ 500V
Nominal Capacitance Range	39 ~ 47000µF	
Capacitance Tolerance	±20%	
Leakage Current(µA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller. C:Nominal Capacitance(µF) V:Rated Voltage(V)	
Dissipation Factor(120HZ 20°C) (Tan δ)	Rated voltage (V)	16 25 35 50 63 ~ 100 160 ~ 400 450 ~ 500
	Tanδ(max)	0.50 0.40 0.35 0.30 0.20 0.15 0.20
Stability at Low Temperature (Impedance Ratio at 120HZ)	Rated Voltage (V)	
	Impedance Ratio	16 ~ 100 160 ~ 200 250 ~ 500
Load Life	Z-25°C/Z+20°C	
	Z-40°C/Z+20°C	
Shelf Life	15	
	4	
Load Life	After applying rated voltage with specified ripple current for 2000 hours at 105°C and then resumed 16 hours Capacitance Change: ±20% Initial measured value Leakage Current: Not more than Initial specified value Dissipation Factor: Not more than 200% Initial specified value	
Shelf Life	After storage for 1000 hours at +105°C, UR to be applied for 30 minutes and then resumed 16 hours Capacitance Change: ±20% Initial measured value Leakage Current: Not more than Initial specified value Dissipation Factor: Not more than 200% Initial specified value	

Multiplier for ripple current

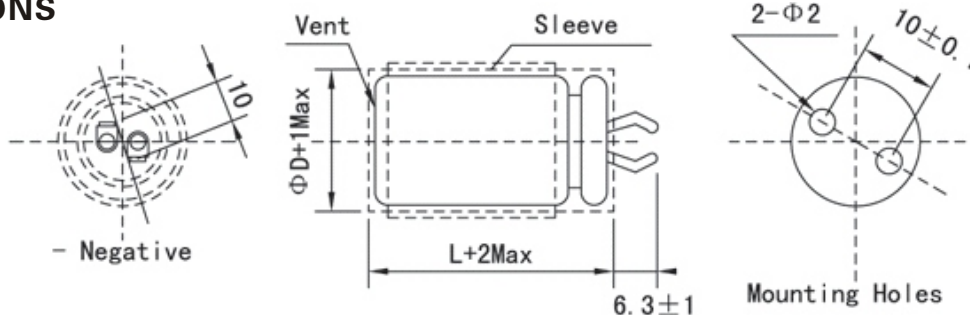
FREQUENCY COEFFICIENT

Rated Voltage(V) \ Freq(Hz)	50Hz	120 Hz	1K Hz	10K Hz	100K Hz
≤100v	0.95	1.00	1.10	1.15	1.15
160 ~ 250	0.87	1.00	1.11	1.18	1.20
≥350	0.80	1.00	1.14	1.14	1.20

TEMPERATURE COEFFICIENT

Temperature(°C)	≤+40	+55	+70	+85	+105
Coefficient	2.7	2.5	2.1	1.7	1

DIMENSIONS



Unit:mm

CD294	U _s	16V(1C)	25V(1E)	35V(1V)	50V(1H)	63V(1J)	80V(1K)	100V(2A)
Cap(µF)	U _R	20V	32V	44V	63V	79V	100V	125V
	Code	D × L (A)	D × L (A)	D × L (A)	D × L (A)	D × L (A)	D × L (A)	D × L (A)
560	560							22 × 25 1.07
820	820						22 × 25 1.11	22 × 30 1.35
								22 × 25 1.35
1000	102						22 × 25 1.25	22 × 35 1.54
								22 × 40 1.56
1200	122					22 × 25 1.25	22 × 30 1.39	22 × 40 1.74
							25 × 25 1.39	25 × 35 1.76
								30 × 25 1.71

1500	152											22 × 35	1.61	22 × 45	1.99	
												22 × 30	1.62	25 × 40	2.03	
															30 × 30	2.00
															35 × 25	2.07
1800	182						22 × 25	1.31	22 × 30	1.52	22 × 40	1.83	25 × 45	2.28		
									25 × 25	1.52	30 × 25	1.81	30 × 35	2.27		
2200	222						22 × 30	1.45	22 × 35	1.73	22 × 45	2.09	25 × 50	2.57		
									25 × 30	1.75	25 × 35	2.01	30 × 40	2.59		
												30 × 30	2.10	35 × 30	2.52	
												35 × 25	2.17			
2700	272						22 × 30	1.70	22 × 40	1.97	25 × 45	2.43	30 × 45	2.94		
							25 × 25	1.70	25 × 35	1.99	30 × 35	2.43	35 × 35	2.90		
									30 × 25	1.93						
3300	332				22 × 25	1.43	22 × 35	1.98	22 × 50	2.32	25 × 50	2.76	30 × 50	3.32		
							25 × 30	2.00	25 × 40	2.27	30 × 40	2.78	35 × 40	3.31		
											30 × 30	2.24	35 × 30	2.71		
											35 × 25	2.41				
3900	392				22 × 30	1.65	22 × 40	2.25	25 × 45	2.54	30 × 45	3.12	35 × 45	3.69		
							25 × 35	2.28	30 × 35	2.55	35 × 35	3.07				
							30 × 25	2.22								
4700	472			22 × 25	1.55	25 × 25	1.78	22 × 45	2.56	25 × 50	2.88	30 × 50	3.56	35 × 50	4.14	
								30 × 30	2.58	30 × 40	2.90	35 × 40	3.50			
								30 × 25	2.67	35 × 30	2.83					
5600	562				22 × 35	2.02	22 × 50	2.89	30 × 45	3.28	35 × 45	3.87				
					25 × 30	2.04	25 × 40	2.81	35 × 35	3.24						
					30 × 25	2.12	30 × 35	2.95								
6800	682	22 × 25	1.60	22 × 30	1.91	22 × 40	2.28	25 × 50	3.37	30 × 50	3.73	35 × 45	4.19			
				22 × 25	1.91	25 × 35	2.31	30 × 40	3.39	35 × 40	3.71					
								35 × 30	3.31							
8200	822			22 × 35	2.14	22 × 50	2.67	30 × 45	3.71	35 × 45	4.16					
				25 × 30	2.16	25 × 40	2.60	35 × 35	3.66							
				30 × 25		30 × 30	2.56									
						35 × 25	2.78									
10000	103	22 × 30	1.99	22 × 40	2.40	25 × 45	2.92	30 × 50	4.09	35 × 50	4.69					
		25 × 25	1.99	25 × 35	2.44	30 × 35	2.92	35 × 40	4.07							
12000	123	22 × 35	2.28	22 × 45	2.69	25 × 50	3.26	35 × 45	4.50							
		25 × 30	2.30	25 × 40	2.74	30 × 40	3.28									
		30 × 25	2.38	30 × 30	2.70	35 × 30	3.20									
				35 × 25	2.80											
15000	153	22 × 40	2.64	25 × 45	3.15	30 × 45	3.74									
		25 × 35	2.68	30 × 35	3.13	35 × 35	3.69									
				35 × 30	3.22											
18000	183	22 × 45	2.98	25 × 50	3.54	35 × 40	4.16									
		25 × 40	3.04	30 × 40	3.54											
		30 × 30	3.00													
		35 × 25	3.10													
22000	223	25 × 45	3.40	30 × 45	4.24	35 × 50	4.92									
		30 × 35	3.39	35 × 35	3.96											
27000	273	25 × 50	3.81	35 × 45	4.75											
		30 × 40	3.83													
		35 × 30	3.74													
33000	333	30 × 45	4.30	35 × 50	5.39											
		35 × 35	4.24													
39000	393	30 × 50	4.74													
		35 × 40	4.72													
47000	473	35 × 45	5.27													

STANDARD RATING

CD294	U _R	160V(2C)		200V(2D)		250V(2E)		350V(2V)		400V(2G)		450V(2W)		500V(2H)	
	U _S	200V		250V		300V		400V		450V		500V		550V	
	Code	D × L	(A)	D × L	(A)	D × L	(A)	D × L	(A)	D × L	(A)	D × L	(A)	D × L	(A)
39	390													22 × 30	0.35
47	470													22 × 35	0.41
56	560											22 × 25	0.47	22 × 40	0.47
68	680							22 × 25	0.56	22 × 25	0.47	22 × 30	0.56	22 × 45	0.54
												25 × 25	0.65		

82	820									22 × 30	0.56	22 × 35	0.64	25 × 40	0.62	
										25 × 25	0.65					
100	101							22 × 30	0.70	22 × 30	0.60	22 × 40	0.70	25 × 45	0.67	
								25 × 25	0.70			25 × 30	0.70			
												30 × 25	0.78			
120	121							22 × 35	0.73	22 × 35	0.64	22 × 45	0.73	25 × 50	0.77	
											25 × 30	0.70	25 × 35	0.73	35 × 30	0.72
												30 × 25	0.78			
150	151							22 × 40	0.79	22 × 40	0.70	22 × 50	0.78	30 × 40	0.85	
								25 × 30	0.82	25 × 35	0.73	25 × 40	0.82			
								30 × 25	0.82			30 × 30	0.83			
												35 × 25	0.86			
180	181				22 × 25	0.94	22 × 45	0.81	22 × 50	0.78	25 × 45	0.87	30 × 50	1.01		
							25 × 35	0.89	25 × 40	0.82	30 × 35	0.86				
							30 × 30	0.90	30 × 30	0.83						
220	221				22 × 25	1.08	22 × 30	1.10	22 × 50	0.93	25 × 45	0.87	25 × 50	0.94	35 × 45	1.12
							25 × 25	1.15	25 × 40	0.97	30 × 35	0.96	30 × 40	0.95		
									35 × 25	0.98			35 × 30	0.91		
270	271				22 × 30	1.20	22 × 35	1.13	25 × 50	1.01	25 × 50	0.94	30 × 45	1.11	35 × 50	1.29
									30 × 35	1.05	30 × 40	0.95	35 × 35	1.13		
									35 × 30	1.01	35 × 30	0.91				
330	331				22 × 30	1.30	22 × 40	1.20	30 × 45	1.16	30 × 45	1.11	30 × 50	1.15		
					25 × 25	1.35	25 × 30	1.30	35 × 35	1.16	35 × 35	1.13	35 × 40	1.26		
							30 × 25	1.30								
390	391				22 × 35	1.41	22 × 45	1.26	30 × 50	1.26	30 × 50	1.15	35 × 45	1.31		
							25 × 35	1.41	35 × 40	1.26	35 × 40	1.26				
470	471				22 × 40	1.50	22 × 50	1.37	35 × 45	1.35	35 × 45	1.31	35 × 50	1.50		
					25 × 30	1.47	25 × 40	1.52								
					30 × 25	1.56	30 × 30	1.36								
							35 × 25	1.40								
560	561				22 × 45	1.58	25 × 45	1.59	35 × 50	1.51	35 × 50	1.50				
					25 × 35	1.65	30 × 35	1.57								
							35 × 30	1.56								
680	681				22 × 45	1.70	22 × 50	1.68	25 × 50	1.66						
					25 × 35	1.81	25 × 40	1.80	30 × 0	1.76						
					30 × 25	1.82	30 × 30	1.82								
							35 × 25	1.96								
820	821				22 × 50	1.81	25 × 50	1.87	30 × 45	1.83						
					25 × 40	1.98	30 × 35	1.99	35 × 35	1.82						
					30 × 30	1.98	35 × 30	2.07								
							35 × 25	1.93								
1000	102				25 × 45	2.04	30 × 45	2.17	30 × 50	1.87						
					30 × 35	2.14	35 × 35	2.22	35 × 40	1.99						
1200	122				25 × 50	2.12	30 × 50	2.22	35 × 45	2.10						
					30 × 40	2.22	35 × 40	2.42								
					35 × 30	2.40										
1500	152				30 × 45	2.46	35 × 45	2.59								
					35 × 35	2.53										
1800	182				35 × 45	2.98	35 × 50	2.70								
2200	222				35 × 50	3.10										

Rated ripple current(A,+105℃,120Hz)
 Size(φ D × L)
 U –Rated voltage
 Customer products are available on request
 U –Surge voltage