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Aluminum Electrolytic Capacitors

CD294

- High ripple current, smaller size, load life of 2000 hours at 105°C
- Used in PCB mounting

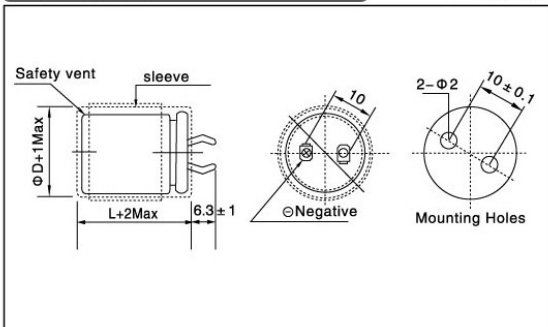


Specifications

Item	Performance Characteristics	
Operating temperature	-40 °C ~ +105 °C	-25 °C ~ +105 °C
Rated voltage range	16 ~ 100V	160 ~ 450 V
Nominal capacitance range	39~47000 µF	
Capacitance tolerance	± 20%(120Hz,+20°C)	
Leakage current	I ≤ 0.01CV (µ A) 1.5mA (after 5 minutes, Whichever is smaller)	
(tg δ) Dissipation factor (+20°C, 120Hz)	Rated voltage(V)	16 25 35 50 63-100 160-400 450
	tg δ	0.50 0.40 0.35 0.30 0.20 0.15 0.20
Temperature characteristics (Impedance ratio at 120Hz)	U _R (V)	16 ~ 100 160 ~ 200 250 ~ 450
	Z-25 °C / +20 °C	4 4 4
	Z-40 °C / +20 °C	15
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 : ≤ Initial specified value Dissipation factor : ≤ 2 Initial specified value	
Shelf life	After storage for 1000 hours at +105°C, U _R to be applied for 30 minutes and then resumed 16 hours Capacitance change : ± 20% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 2 Initial specified value	

Case size table

Unit: mm



Multiplier for ripple current

Frequency coefficient		Freq(Hz)					
		50	120	1k	10k	20k	
Rated Voltage(V)	≤ 50	Factor	0.95	1	1.10	1.15	1.15
	6.3-100	Factor	0.95	1	1.16	1.30	1.33
	≥ 160	Factor	0.95	1	1.20	1.50	1.55

Temperature coefficient		Temperature(°C)				
		+40	+55	+70	+85	+105
Factor		2.7	2.5	2.1	1.7	1.0

Large Cap Aluminum Electrolytic Capacitors

Large Cap CD294



Large Can Aluminum Electrolytic Capacitors

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Standard rating

Wv(V) Φ D × L (mm)	16		25		35		50		63		80		100	
	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms
22 × 25	6800	1.6	4700	1.55	3300	1.43	1800	1.31	1200	1.25	820	1.11	560	1.07
22 × 30	10000	1.99	6800	1.91	3900	1.65	2700	1.70	1800	1.52	1200	1.39	820	0.35
22 × 35	12000	2.28	8200	2.14	5600	2.02	3300	1.98	2200	1.73	1500	1.61	1000	1.54
22 × 40	15000	2.64	10000	2.40	6800	2.28	3900	2.25	2700	1.97	1800	1.83	1200	1.74
22 × 45	18000	2.98	12000	2.69			4700	2.56			2200	2.09	1500	1.99
22 × 50					8200	2.67	5600	2.89	3300	2.32				
25 × 25	10000	1.99	6800	1.91	4700	1.78	2700	1.7	1800	1.52	1200	1.39	820	1.35
25 × 30	12000	2.3	8200	2.16	5600	2.04	3300	2.00	2200	1.75	1500	1.62	1000	1.56
25 × 35	15000	2.68	10000	2.44	6800	2.31	3900	2.28	2700	1.99	2200	2.01	1200	1.76
25 × 40	18000	3.04	12000	2.74	8200	2.60	5600	2.81	3300	2.27			1500	2.03
25 × 45	22000	3.4	15000	3.15	10000	2.92			3900	2.54	2700	2.43	1800	2.28
25 × 50	27000	3.81	18000	3.54	12000	3.26	6800	3.37	4700	2.88	3300	2.76	2200	2.57
30 × 25	12000	2.38	8200	2.25	5600	2.12	3900	2.22	2700	1.93	1800	1.81	1200	1.71
30 × 30	18000	3.00	12000	2.70	8200	2.56	4700	2.58	3300	2.24	2200	2.10	1500	2.00
30 × 35	22000	3.39	15000	3.13	10000	2.92	5600	2.95	3900	2.55	2700	2.43	1800	2.27
30 × 40	27000	3.83	18000	3.54	12000	3.28	6800	3.39	4700	2.9	3300	2.78	2200	2.59
30 × 45	33000	4.3	22000	4.24	15000	3.74	8200	3.71	5600	3.28	3900	3.12	2700	2.94
30 × 50	39000	4.74					10000	4.09	6800	3.73	4700	3.56	3300	3.32
35 × 25	18000	3.10	12000	2.80	8200	2.78	4700	2.67	3300	2.41	2200	2.17	1500	2.07
35 × 30	27000	3.74	15000	3.22	12000	3.20	6800	3.31	4700	2.83	3300	2.71	2200	2.52
35 × 35	33000	4.24	22000	3.96	15000	3.69	8200	3.66	5600	3.24	3900	3.07	2700	2.90
35 × 40	39000	4.72			18000	4.16	10000	4.07	6800	3.71	4700	3.50	3300	3.31
35 × 45	47000	5.27	27000	4.75			12000	4.50	8200	4.16	5600	3.87	3900	3.69
35 × 50			33000	5.39	22000	4.92			10000	4.69	6800	4.19	4700	4.14

Wv(V) Φ D × L (mm)	160		180		200		250		350		400		450	
	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms	μ F	Arms
22 × 25	330	1.16	270	1.08	220	1.08	180	0.94	68	0.56	68	0.47		
22 × 30	390	1.43	330	1.30	330	1.30	220	1.10	100	0.70	82	0.56	39	0.35
22 × 35	470	1.52	470	1.50	390	1.41	270	1.13	120	0.73	120	0.64	47	0.41
22 × 40	560	1.62	560	1.62	470	1.50	330	1.20	150	0.79	150	0.70	56	0.47
22 × 45	680	1.70			560	1.58	390	1.26	180	0.81			68	0.54
22 × 50	820	1.81	680	1.76	680	1.68	470	1.37	220	0.93	180	0.78		
25 × 25	470	1.55	390	1.35	330	1.35	220	1.15	100	0.70	82	0.65		
25 × 30	560	1.73	470	1.62	470	1.47	330	1.30	150	0.82	120	0.70		
25 × 35	680	1.81	560	1.69	560	1.65	390	1.41	180	0.89	150	0.73		
25 × 40	820	1.98	680	1.72	680	1.80	470	1.52	220	0.97	180	0.82	82	0.62
25 × 45	1000	2.04	820	1.78			560	1.59			220	0.87	100	0.67
25 × 50	1200	2.12	1000	1.91	820	1.87	680	1.66	270	1.01	270	0.94	120	0.77
30 × 25	680	1.82	560	1.67	470	1.56	330	1.30	150	0.82	120	0.78		
30 × 30	820	1.98	680	1.74	680	1.82	470	1.36	180	0.90	180	0.83		
30 × 35	1000	2.14	820	1.85	820	1.99	560	1.57	270	1.05	220	0.86		
30 × 40	1200	2.22	1000	2.01			680	1.76			270	0.95	150	0.85
30 × 45	1500	2.46	1200	2.19	1000	2.17	820	1.83	330	1.16	330	1.11		
30 × 50			1500	2.36	1200	2.22	1000	1.87	390	1.26	390	1.15	180	1.01
35 × 25	820	1.93	680	1.92	680	1.96	470	1.40	220	0.98	180	0.86		
35 × 30	1200	2.40	1000	2.16	820	2.07	560	1.56	270	1.01	270	0.91	120	0.72
35 × 35	1500	2.53	1200	2.34	1000	2.22	820	1.82	330	1.16	330	1.13		
35 × 40			1500	2.56	1200	2.42	1000	1.99	390	1.26	390	1.26		
35 × 45	1800	2.98	1800	2.67	1500	2.59	1200	2.10	470	1.35	470	1.31	220	1.12
35 × 50	2200	3.10			1800	2.70			560	1.51	560	1.50	270	1.29

Rated ripple current(A, +105°C, 120Hz)