Aluminum Electrolytic Capacitors

EAR7-CD293 Snap-In Aluminum Electrolytic Capacitors

ELECSOUND®

Features:

Load life 2000 hours at 85 ℃
High ripple current
Smaller size
Used in PCB Mounting
Rohs Compliant

Specifictions:

Operating Temperature Range(℃): -40~+85 & -25~+85@450V
Rated Voltage Range(V): 10~450
Nominal Capacitance Ranger(μF): 68~82000
Capacitance Tolerance(20 ℃,120Hz) : 20%
Leakage current(μA): 0.01CV or 1.5mA whichever is smaller(at 25 ℃ ,after 5 minutes) C:Nominal Capacitance(μF) V:Rated Voltage(V)

Dissipation Factor(25 ℃,120Hz)

Rated voltage(v) Cap(μF)	10~16	25	35~50	63	80~100
2700	-	-	0.2	0.15	0.15
3300~4700	-	0.35	0.25	0.2	0.15
5600~6800	0.4	0.35	0.3	0.2	0.2
≧8200	0.4	0.35	0.35	0.25	

Rated voltage(v) ΦD(mm)	160~200	250~450
22~30	0.1	0.15
35	0.12	0.15

Temperature Stability(120Hz)

Rated voltage(v)		10	16~35	50~100	160~200	250~400	450~500
Impedance Ratio	Z-25 ℃/Z+20℃	5	4	3	3	4	4
	Z-40 ℃/Z+20℃	18	15	10	6	8	-

Load Life(+85 ℃)

Time	2000 hours
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.

Shelf Life(+85 ℃)

Time	1000 hours
Leakage Current	Not more than the specified value.
Capacitance Change	Within ±15% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.

After test:Rated Voltage to be applied for 60 minutes, 24 to 48 hours before measurement.

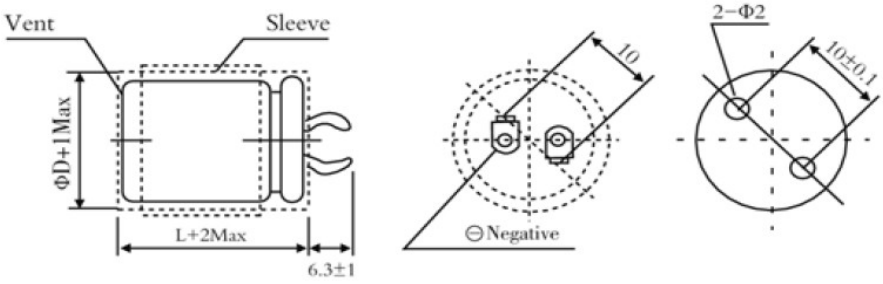
Frequency coefficient

Frequency (Hz) / Rated Voltage (V)	50Hz	120Hz	1KHz	10KHz	100K
≦ 50	0.95	1.00	1.10	1.15	1.15
63~100	0.95	1.00	1.16	1.30	1.33
≧ 160	0.95	1.00	1.20	1.50	1.55

Temperature coefficient

Temperature (℃) / Rated voltage (V)	+40	+55	+70	+85
<160	2.1	1.8	1.5	1.0
≧ 160	1.7	1.5	1.3	1.0

Dimensions : (Unit:MM)



ELECSOUND ELECTRONICS COMPANY LIMITED

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Standard Ratings

WV(V)	10		16		25		35		50		63		80		100	
ΦDxL(mm)	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms
22x25	10000	2.5	8200	2.2	5600	2.0	3300	1.8	2200	1.7	1500	1.6	1000	1.3	680	1.1
22x30	15000	3.2	10000	2.6	6800	2.3	3900	2.1	2700	1.9	2200	2.0	1200	1.5	820	1.2
22x35	18000	3.6	12000	2.9	8200	2.6	5600	2.3	3900	2.1	2700	2.2	1800	1.9	1200	1.6
22x40	22000	4	15000	3.3	10000	2.9	6800	2.9	4700	2.4	3300	2.3	2200	2.1	1500	1.8
22x45	-	-	18000	3.8	12000	3.3	-	-	-	-	3900	2.5	-	-	-	-
22x50	-	-	22000	4.2	-	-	8200	2.8	5600	2.5	-	-	2700	2.5	1800	2.1
25x25	15000	3.1	10000	2.6	6800	2.3	4700	2.2	2700	1.9	2200	2.0	1500	1.7	1000	1.4
25x30	18000	3.6	15000	3.3	10000	2.8	5600	2.3	3900	2.1	2700	2.3	1800	1.9	1200	1.6
25x35	22000	4.1	18000	3.7	12000	3.2	6800	2.6	4700	2.4	3300	2.3	2200	2.2	1500	1.7
25x40	33000	4.6	22000	4.2	15000	3.7	8200	2.8	5600	2.5	3900	2.6	2700	2.5	1800	2.0
25x45	39000	5.2	27000	5.0	-	-	10000	3.1	6800	2.8	5600	3.1	3300	2.8	2200	2.2
25x50	47000	5.8	-	-	18000	4.3	12000	3.5	8200	3.2	-	-	3900	3.1	2700	2.6
30x25	22000	4.1	15000	3.4	10000	3.0	6800	2.7	3900	2.4	3300	2.3	2200	2.2	1500	1.8
30x30	33000	4.8	22000	4.2	12000	3.4	8200	2.8	5600	2.5	3900	2.6	2700	2.5	1800	2.1
30x35	39000	5.3	27000	5.0	18000	4.2	10000	3.2	6800	2.8	5600	3.2	3300	2.8	2200	2.3
30x40	47000	6.0	33000	5.6	22000	4.8	12000	3.5	8200	3.0	6800	3.6	3900	3.2	2700	2.7
30x45	56000	6.7	39000	6.2	-	-	15000	4.1	10000	3.4	-	-	4700	3.6	3300	3.0
30x50	68000	7.5	47000	7.0	-	-	18000	4.6	12000	3.8	8200	3.7	5600	3.5	3900	3.4
35x25	33000	4.8	22000	4.4	15000	3.9	8200	2.9	5600	2.6	3900	2.7	2700	2.5	1800	2.2
35x30	47000	6.0	33000	5.6	18000	4.4	12000	3.6	8200	3.0	5600	3.3	3900	3.2	2200	2.5
35x35	56000	6.8	39000	6.3	22000	5.0	15000	4.1	10000	3.4	6800	3.7	4700	3.6	3300	3.1
35x40	68000	7.7	47000	7.2	33000	6.5	18000	4.7	12000	3.8	8200	3.8	5600	3.5	3900	3.4
35x45	82000	8.7	56000	8.0	39000	7.5	22000	5.3	-	-	10000	4.3	-	-	-	-
35x50	-	-	-	-	-	-	27000	7.0	15000	4.5	12000	4.8	6800	4.1	4700	4.0

WV(V)	160		180		200		250		315		350		400		450	
ΦDxL(mm)	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms
22x25	330	1.3	270	1.2	220	11	180	0.94	100	0.67	82	0.64	68	0.55	-	-
22x30	390	1.5	330	1.4	330	1.4	220	1.1	150	0.85	120	0.82	100	0.7	68	0.57
22x35	560	1.9	470	1.7	390	1.6	270	1.2	180	0.96	150	0.94	120	0.79	100	0.72
22x40	680	2.1	560	1.9	470	1.8	330	1.4	220	1.1	180	1.1	150	0.9	120	0.8
22x45	-	-	-	-	560	2.0	390	1.6	270	1.2	220	1.2	180	1	-	-
22x50	820	2.5	680	2.3	-	-	470	1.8	-	-	-	-	220	1.1	150	0.95
25x25	390	1.5	390	1.5	330	1.4	220	1.1	150	0.85	120	0.81	100	0.7	-	-
25x30	560	1.9	470	1.7	390	1.6	300	1.4	180	0.96	150	0.94	150	0.89	100	0.73
25x35	680	2.2	560	2.0	560	2.0	390	1.6	220	1.1	220	1.2	180	1	120	83
25x40	820	2.4	680	2.2	680	2.3	470	1.8	270	1.3	-	-	220	1.2	150	0.95
25x45	1000	2.7	820	2.5	-	-	560	2.0	330	1.4	270	1.4	270	1.3	180	1.1
25x50	1200	3.1	1000	2.9	820	2.6	-	-	390	1.6	330	1.6	-	-	220	1.2
30x25	560	2.0	470	1.8	470	1.9	330	1.5	220	1.1	180	1.1	150	95	-	-
30x30	820	2.5	680	2.3	560	2.1	470	1.8	270	1.3	220	1.2	180	1.1	150	0.98
30x35	1000	2.8	820	2.6	680	2.4	560	2.0	330	1.4	270	1.4	220	1.2	180	1.1
30x40	1200	3.2	1000	2.9	820	2.7	680	2.3	390	1.6	390	1.7	270	1.4	220	1.3
30x45	1500	3.7	1200	3.3	1000	3.1	820	2.6	470	1.8	470	2.0	330	1.6	270	1.4
30x50	-	-	-	-	1200	3.4	-	-	560	2.0	-	-	390	1.8	-	-
35x25	820	2.4	680	2.2	560	2.0	470	1.9	270	1.3	220	1.3	180	1.2	180	1.2
35x30	1000	2.7	820	2.5	820	2.5	680	2.4	390	1.6	330	1.6	270	1.5	220	1.3
35x35	1200	3.0	1200	3.1	1000	2.8	820	2.6	470	1.8	390	1.8	330	1.7	270	1.5
35x40	1500	3.5	-	-	1200	3.2	1000	3.0	560	2.0	470	2.0	390	1.8	-	-
35x45	1800	3.9	1500	3.6	-	-	1200	3.4	680	2.3	560	2.3	470	2.1	390	1.9
35x50	2200	4.5	1800	4.1	1500	3.8	-	-	-	-	680	2.6	560	2.3	470	2.2

Rated Ripple Current: 85 ℃,100hz or 120Hz

The Specific capacitance and case size are available on requert by customer

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