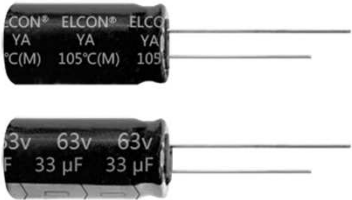


YA

Series

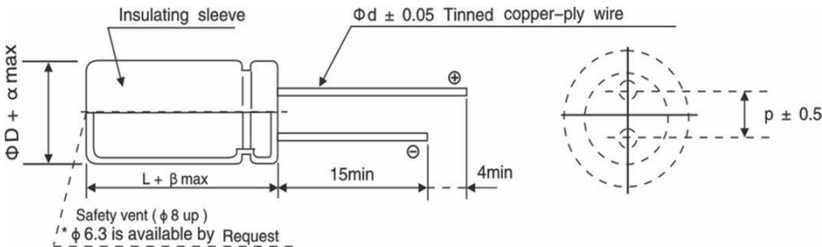
- 105℃ High ripple current, low impedance, long life
- 3000 hours guaranteed for $\Phi D \leq \Phi 8$;
- 5000 hours guaranteed for $\Phi D = \Phi 10$;
- 7000 hours guaranteed for $\Phi D \geq \Phi 13$;



SPECIFICATIONS

Item	Characteristics								
Category Temperature Range	-40 ~ +105℃								
Voltage Range	6.3 ~ 100V.DC								
Nominal Cap. Range	6.8 ~ 1800μF								
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)								
Leakage Current	I=0.01CV or 3 μA , whichever is greater (After 2 minutes). where, I: max leakage current (μA), C: Nominal capacitance(μF), V:Rated voltage (V) (at 20℃)								
Dissipation Factor (MAX) (tanδ) (at 120Hz ,20℃)	WV	6.3	10	16	25	35	50	63	100
	tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
	When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.								
Low Temp.Impedance Stability at 120Hz	WV		6.3	10	16	25~100			
	Z-25℃ / Z+20℃		4	3	2	2			
	Z-40℃ / Z+20℃		8	6	4	3			
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105℃.								
	Capacitance change			≤ ±20% of the initial value					
	Dissipation Factor			≤ 200% of the initial specified value					
	Leakage Current			≤ the initial specified value					
	Size		Φ5~Φ8	Φ10	≥Φ13				
	Life time		3000	5000	7000				
Shelf Life	After storage for 1000 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirement specified in the table "High Temperature Loading" can be met.								

DRAWING



Unit:(mm)							
ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.50			0.6		0.8	
β	1.5						
α	0.5						

MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz)	120	1K	10K	100K
Cap.(μF)				
6.8~680	0.49	0.73	0.92	1.00
820~1800	0.60	0.80	0.96	1.00
2200~18000	0.70	0.85	0.98	1.00

(2) Temperature Coefficient

Ambient Temperature(℃)	40	60	70	85	105
Coefficient	2.40	2.10	1.78	1.65	1.00

■ STANDARD RATINGS

WV(vdc) Parameter Cap.(μF)	6.3				WV(vdc) Parameter Cap.(μF)	10			
	ΦDxL(mm)	Impedance		Ripple Current (mAmps) 105℃ 100KHz		ΦDxL(mm)	Impedance		Ripple Current (mAmps) 105℃ 100KHz
		20℃ 100KHz	-10℃ 100KHz				20℃ 100KHz	-10℃ 100KHz	
150	5x11	0.58	2.3	210	100	5x11	0.58	2.3	210
330	6.3x11	0.22	0.87	340	220	6.3x11	0.22	0.87	340
680	8x11.5	0.13	0.52	640	470	8x11.5	0.13	0.52	640
820	10x12.5	0.08	0.32	865	680	10x12.5	0.08	0.32	865
1000	8x16	0.087	0.35	840	1000	10x16	0.06	0.24	1210
1200	8x20	0.069	0.27	1050	1200	10x20	0.046	0.18	1400
1200	10x16	0.066	0.24	1210	1500	10x25	0.042	0.17	1650
1500	10x20	0.05	0.18	1400	2200	13x20	0.035	0.12	1900
1800	13x20	0.049	0.16	1450	2700	18x16	0.043	0.11	2210
2200	13x25	0.042	0.17	1650	3300	13x25	0.027	0.089	2230
2700	16x16	0.042	0.12	1940	4700	16x31	0.02	0.065	2880
3300	13x25	0.035	0.12	1900	5600	16x31	0.017	0.056	3350
4700	13x30	0.03	0.078	2650	6800	18x32	0.017	0.05	3450
5600	16x20	0.027	0.078	2530	6800	18x25	0.019	0.049	3140
6800	16x25	0.021	0.06	2930	8200	16x36	0.015	0.044	3610
8200	16x31	0.017	0.05	3450	8200	18x32	0.015	0.04	4170
10000	16x36	0.015	0.044	3610	10000	18x36	0.013	0.038	4080
15000	18x36	0.014	0.038	4220	10000	18x40	0.014	0.038	4220
18000	18x40	0.012	0.032	4280	12000	18x40	0.012	0.032	4280

WV(vdc) Parameter Cap.(μF)	16				WV(vdc) Parameter Cap.(μF)	25			
	ΦDxL(mm)	Impedance		Ripple Current (mAmps) 105℃ 100KHz		ΦDxL(mm)	Impedance		Ripple Current (mAmps) 105℃ 100KHz
		20℃ 100KHz	-10℃ 100KHz				20℃ 100KHz	-10℃ 100KHz	
56	5x11	0.58	2.3	210	47	5x11	0.58	2.3	210
120	6.3x11	0.22	0.87	340	100	6.3x11	0.22	0.87	340
330	8x11.5	0.13	0.52	640	220	8x11.5	0.13	0.52	640
470	10x12.5	0.087	0.35	865	330	10x12.5	0.08	0.32	865
680	10x16	0.06	0.24	1430	470	10x16	0.06	0.24	1430
1000	10x20	0.046	0.18	1455	680	10x20	0.046	0.18	1455
1500	13x30	0.035	0.12	1900	820	10x25	0.042	0.17	1650
2200	13x25	0.027	0.089	2230	1000	13x20	0.035	0.12	1900
2700	16x20	0.027	0.078	2530	1200	18x16	0.043	0.11	2210
3300	16x31	0.02	0.065	2880	1500	13x25	0.027	0.089	2230
4700	16x31	0.017	0.056	3450	2200	18x20	0.026	0.067	2860
5600	18x32	0.015	0.05	4170	2700	16x25	0.021	0.06	2930
6800	18x36	0.014	0.04	4200	3300	18x25	0.019	0.049	3140
8200	18x36	0.014	0.038	4220	4700	18x36	0.013	0.038	4080
10000	18x40	0.012	0.032	4280	5600	18x40	0.012	0.032	4280

■ STANDARD RATINGS

WV(vdc) Parameter Cap.(μF)	35				WV(vdc) Parameter Cap.(μF)	50			
	ΦDxL(mm)	Impedance		Ripple Current (mA) 105℃ 100KHz		ΦDxL(mm)	Impedance		Ripple Current (mA) 105℃ 100KHz
		20℃ 100KHz	-10℃ 100KHz				20℃ 100KHz	-10℃ 100KHz	
33	5x11	0.58	2.3	210	22	5x11	0.7	2.8	180
56	6.3x11	0.22	0.87	340	56	6.3x11	0.3	1.2	295
150	8x11.5	0.13	0.52	640	100	8x11.5	0.17	0.68	555
220	10x12.5	0.08	0.32	865	120	8x16	0.12	0.48	730
330	10x16	0.06	0.24	1210	150	10x12.5	0.12	0.48	760
470	10x20	0.046	0.18	1400	180	8x20	0.091	0.36	910
560	10x25	0.042	0.17	1650	220	10x16	0.084	0.34	1050
680	13x20	0.035	0.12	1900	330	10x25	0.055	0.22	1440
1000	13x25	0.027	0.089	2230	470	13x20	0.045	0.15	1660
1200	16x20	0.027	0.078	2530	560	13x25	0.034	0.11	1950
1500	13x25	0.02	0.065	2880	680	13x30	0.03	0.1	2310
1800	16x25	0.021	0.06	2930	820	16x20	0.034	0.1	2210
2200	18x25	0.019	0.049	3140	1000	16x25	0.036	0.097	2490
2700	18x32	0.015	0.044	4170	1200	18x25	0.026	0.07	2740
3300	18x36	0.014	0.038	4220	1500	16x36	0.019	0.057	3150
3900	18x40	0.012	0.032	4280	1800	18x32	0.016	0.048	3635
					2200	18x36	0.017	0.046	3680
					2700	18x40	0.014	0.038	3800

WV(vdc) Parameter Cap.(μF)	63				WV(vdc) Parameter Cap.(μF)	100			
	ΦDxL(mm)	Impedance		Ripple Current (mAmps) 105°C ,100KHz		ΦDxL(mm)	Impedance		Ripple Current (mAmps) 105°C ,100KHz
		20°C 100KHz	-10°C 100KHz				20°C 100KHz	-10°C 100KHz	
15	5x11	1.8	7.3	62	6.8	5x11	1.8	7.3	62
33	6.3x11	1	4.1	126	15	6.3x11	1	4.1	126
56	8x11.5	0.5	2.2	260	47	8x11.5	0.34	1.4	325
82	10x12.5	0.36	1.7	325	68	10x16	0.25	1.2	400
120	10x16	0.25	1.2	400	82	10x20	0.17	0.76	518
180	10x20	0.17	0.76	518	100	10x25	0.16	0.67	595
220	10x25	0.16	0.67	595	120	13x20	0.13	0.52	765
330	13x25	0.096	0.36	875	150	13x25	0.11	0.52	895
470	16x20	0.077	0.32	1130	180	13x25	0.096	0.36	875
560	16x25	0.062	0.23	1350	220	16x20	0.077	0.32	1130
680	18x20	0.072	0.27	1300	330	18x20	0.072	0.27	1300
820	18x25	0.052	0.19	1560	470	18x32	0.042	0.15	1720
1000	18x32	0.042	0.15	1720	560	18x36	0.036	0.13	2130
1200	18x36	0.036	0.13	1890	680	18x36	0.036	0.13	1890
1500	18x40	0.032	0.12	2470	820	18x40	0.032	0.12	2470