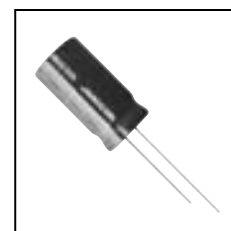


- Low impedance and long life with standing 5000 hours load life.
- Suitable for electronic ballast, adaptor and switching power.

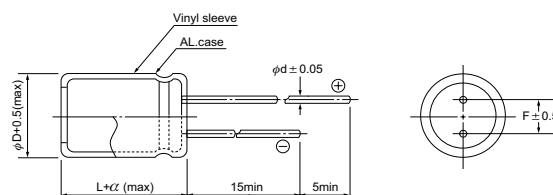


## ● SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 63VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	I ≤ 0.01CV or 3 (μA) Whichever is greater after 2 minutes				I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)			
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	63
	S.V.	8	13	20	32	44	63	79
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF							
	W.V.	6.3	10	16	25	35	50	63
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16	25	35	50	63
	-25°C / +20°C	2	2	2	2	2	2	2
	-55°C / +20°C	3	3	3	3	3	3	3
Load Life	After hours (φ5~6.3mm 2000 hours, φ8mm 3000 hours, φD≥10mm 5000 hours) application of W.V. at +105°C, the capacitor shall meet the following limits.							
	Capacitance Change	≤ ±20% of initial value						
	Dissipation Factor	≤ 200% of initial specified value						
	Leakage current	≤ initial specified value						
Shelf Life	At + 105°C no voltage application after 1000 hours the capacitor shall meet the following limits. (with voltage treatment)							
	Capacitance Change	≤ ±20% of initial value						
	Dissipation Factor	≤ 150% of initial specified value						
	Leakage current	≤ 200% of initial specified value						

## ● DIMENSIONS (mm)

φD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5	1.5	1.5	1.5



## ● RIPPLE CURRENT COEFFICIENTS

Temperature(°c)	65	75	85	95	105
Multiplier	2.12	1.92	1.69	1.50	1.00

Frequency(Hz)	60	120	400	1k	10k	100k
W.V.	Multiplier					
6.3~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50V	0.36	0.46	0.70	0.88	0.94	1.00

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)  
 Max impedance : Ω 100kHz  
 Max ripple current : A(rms) 105°C 100kHz

V(Code)		6.3 (0J)				10 (1A)				16 (1C)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C			20°C	-10°C	
47		470									5x11	0.568	1.421	0.15
68		680									5x11	0.500	1.250	0.18
100		101					5x11	0.500	1.250	0.21	6.3x11	0.367	0.918	0.25
220		221	6.3x11	0.308	0.769	0.34	6.3x11	0.249	0.623	0.35	8x11.5	0.190	0.474	0.43
330		331	6.3x11	0.246	0.615	0.42	8x11.5	0.169	0.423	0.51	10x12.5	0.114	0.285	0.55
470		471	8x11.5	0.178	0.446	0.58	8x11.5	0.139	0.346	0.60	10x12.5	0.093	0.233	0.66
680		681	10x12.5	0.081	0.203	0.74	10x12.5	0.077	0.194	0.76	10x16	0.074	0.184	0.88
1000		102	8x20	0.066	0.166	1.08	10x16	0.063	0.158	1.03	10x20	0.060	0.150	1.18
1200		122	10x16	0.058	0.144	1.09	10x20	0.055	0.137	1.24	10x25	0.052	0.130	1.43
1500		152	10x20	0.049	0.123	1.30	10x25	0.047	0.116	1.48	12.5x20	0.044	0.111	1.48
2200		222	10x25	0.038	0.094	1.68	12.5x20	0.036	0.090	1.67	12.5x25	0.034	0.086	1.91
3300		332	12.5x20	0.032	0.079	1.87	12.5x25	0.030	0.075	2.12	16x25	0.029	0.057	2.20
4700		472	12.5x30	0.027	0.067	2.47	16x25	0.025	0.051	2.35	16x31.5	0.024	0.048	2.67
6800		682	16x25	0.024	0.048	2.53	16x31.5	0.023	0.045	2.85	18x35.5	0.022	0.043	3.28
10000		103	16x31.5	0.022	0.043	3.00	18x35.5	0.021	0.041	3.43	18x40	0.019	0.039	3.67
15000		153	18x35.5	0.020	0.041	3.61	18x40	0.019	0.039	3.85				

V(Code)		25 (1E)				35 (1V)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
4.7		4R7					5x11	1.912	4.781	0.07
10		100					5x11	1.498	3.745	0.10
22		220					5x11	0.817	2.043	0.14
33		330					5x11	0.636	1.589	0.17
47		470	5x11	0.539	1.348	0.19	6.3x11	0.510	1.275	0.24
68		680	6.3x11	0.419	1.049	0.26	6.3x11	0.397	0.991	0.28
100		101	6.3x11	0.349	0.871	0.31	8x11.5	0.330	0.824	0.40
220		221	8x11.5	0.180	0.450	0.54	10x12.5	0.128	0.319	0.63
330		331	10x12.5	0.108	0.270	0.70	10x16	0.102	0.255	0.85
470		471	10x16	0.088	0.221	0.92	10x20	0.084	0.209	1.12
680		681	10x20	0.070	0.175	1.22	12.5x20	0.066	0.165	1.44
1000		102	12.5x20	0.057	0.143	1.58	12.5x25	0.054	0.135	1.93
1200		122	12.5x20	0.050	0.124	1.73	12.5x30	0.047	0.117	2.29
1500		152	12.5x25	0.042	0.105	2.04	16x25	0.040	0.079	2.25
2200		222	16x25	0.032	0.065	2.39	16x31.5	0.031	0.077	2.88
3300		332	16x31.5	0.027	0.054	3.02	18x35.5	0.026	0.064	3.65
4700		472	18x35.5	0.023	0.046	3.70				

V(Code)		50 (1H)				63 (1J)				
μF	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
4.7		4R7	5x11	1.699	5.096	0.08	5x11	1.699	5.096	0.08
10		100	5x11	1.331	3.992	0.11	5x11	1.331	3.992	0.11
22		220	5x11	0.726	2.177	0.16	6.3x11	0.726	1.814	0.19
33		330	6.3x11	0.564	1.411	0.23	6.3x15	0.564	1.411	0.26
47		470	6.3x11	0.453	1.132	0.27	8x11.5	0.453	1.132	0.32
68		680	8x11.5	0.352	0.880	0.38	10x12.5	0.264	0.660	0.40
100		101	8x20	0.220	0.549	0.59	10x16	0.220	0.549	0.54
220		221	10x16	0.113	0.283	0.80	10x25	0.113	0.283	0.98
330		331	10x20	0.091	0.227	1.08	12.5x20	0.091	0.227	1.16
470		471	12.5x20	0.074	0.186	1.38	12.5x25	0.074	0.186	1.52
680		681	12.5x25	0.059	0.147	1.83	16x25	0.059	0.117	1.84
1000		102	16x25	0.048	0.096	2.23	16x35.5	0.048	0.096	2.61
1200		122	16x31.5	0.042	0.083	2.71	18x35.5	0.042	0.083	2.87
1500		152	16x35.5	0.035	0.071	3.01	18x40	0.035	0.071	3.39
2200		222	18x35.5	0.027	0.055	3.69				
3300		332	18x40	0.023	0.046	4.35				