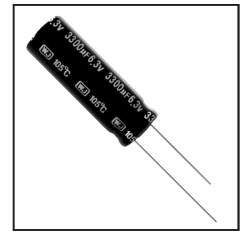


- Enabled high ripple current Ultra low impedance at high frequency range.
- For computer motherboard.
- Corresponding product to RoHS

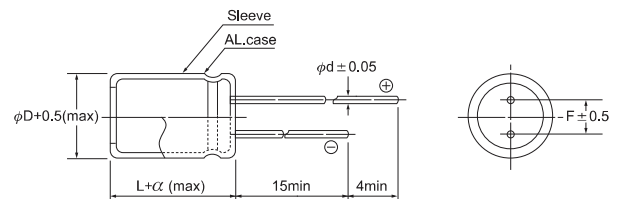


● SPECIFICATION

Item	Characteristic				
Operation Temperature Range	-40 ~ +105°C				
Rated Working Voltage	6.3 ~ 25VDC				
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
	S.V.	8	13	20	32
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
Low Temperature Stability	tan δ	0.22	0.19	0.16	0.16
	Impedance ratio at 120Hz				
	Rated Voltage (V)	6.3	10	16	25
	-25°C / +20°C	2	2	2	2
-40°C / +20°C	3	3	3	3	
Load Life	After 2000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)				
	Capacitance Change	≤ ±30% 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 limits for load life characteristics. (with voltage treatment)				

● DIMENSIONS (mm)

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



● 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					
10~16V	0.45	0.60	0.83	0.94	0.98	1.00
25V	0.38	0.50	0.75	0.90	0.97	1.00

● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 20°C 100kHz
 Max ripple current : mA(rms) 105°C 100kHz

μF	V(DC) Item	6.3			10			16			25		
		DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
100		5x11	0.099	320	5x11	0.092	340	5x11	0.073	400	5x15	0.047	620
											6.3x11	0.047	610
120		5x11	0.085	350	5x11	0.078	380	5x15	0.062	510	6.3x11	0.040	670
								6.3x11	0.062	500			
150		5x11	0.069	390				5x15	0.051	570	6.3x15	0.033	860
								6.3x11	0.051	560	8x11	0.033	880
180		5x11	0.060	430	5x15	0.056	530	6.3x11	0.044	610	8x11	0.029	960
					6.3x11	0.056	520						
220					5x15	0.042	590				8x11	0.025	1060
					6.3x11	0.042	580						
270		6.3x11	0.047	600	6.3x11	0.038	640	6.3x15	0.035	860	8x15	0.022	1320
								8x11	0.035	880	10x12.5	0.022	1390
330		6.3x11	0.041	660	6.3x15	0.033	810	8x11	0.030	1390	8x15	0.020	1460
					8x11	0.033	830				10x12.5	0.020	1530
390		6.3x15	0.030	830	6.3x15	0.030	890	8x15	0.027	1380	8x20	0.018	1810
		8x11	0.030	850	8x11	0.030	900	10x12.5	0.027	1370	10x16	0.018	1850
470		6.3x15	0.026	910	8x11	0.029	1320	8x15	0.025	1390	8x20	0.019	1980
		8x11	0.026	930				10x12.5	0.025	1770	10x16	0.019	2030
560		8x11	0.023	1320	8x11	0.025	1400	8x20	0.022	1720	10x16	0.022	2220
								10x16	0.022	1760			
680		8x11	0.021	1380	8x15	0.023	1330	8x20	0.020	2250	10x20	0.020	2700
					10x12.5	0.023	1760	10x16	0.020	2250	12.5x15	0.020	2710
820		8x15	0.022	1380	10x12.5	0.022	1770	8x20	0.018	2280	10x25	0.018	2840
		10x12.5	0.022	1350				10x16	0.018	2270	12.5x15	0.018	2620
1000		10x12.5	0.020	1700	8x20	0.020	2250	10x20	0.018	2920	12.5x20	0.021	3150
					10x16	0.020	2270	12.5x15	0.018	2930	16x15	0.021	3170
1200		8x20	0.021	1770	10x20	0.021	2250	10x25	0.017	2950	12.5x20	0.018	3380
		10x16	0.021	1810	12.5x15	0.021	2260	12.5x15	0.017	2680	16x15	0.018	3400
1500		10x20	0.021	2230	10x25	0.021	2290	10x25	0.018	2760	12.5x25	0.015	3650
		12.5x15	0.021	2240	12.5x15	0.021	2260	16x15	0.018	2960			
1800		10x20	0.021	2280	10x25	0.021	2940	12.5x20	0.018	3160	12.5x30	0.013	3980
		12.5x15	0.021	2200	12.5x15	0.021	2770	16x15	0.018	3120	16x20	0.013	4010
2200		10x20	0.021	2980	10x25	0.020	3000	12.5x25	0.018	3130	12.5x35	0.014	4170
		12.5x15	0.021	2720	16x15	0.020	3270				16x25	0.014	4220
2700		10x25	0.021	2920	12.5x20	0.021	3150	12.5x30	0.017	3370	12.5x40	0.012	4600
		16x15	0.021	3070	16x15	0.021	3230	16x20	0.017	3320			
3300		12.5x20	0.019	3190	12.5x25	0.021	3330	12.5x35	0.017	3500	16x32	0.013	4810
		16x15	0.019	3150				16x25	0.019	3640			
3900		12.5x25	0.018	3170	12.5x30	0.020	3370	12.5x40	0.019	3980	16x36	0.013	5100
		18x15	0.018	3170	16x20	0.020	3330						
4700		12.5x30	0.016	3160	12.5x35	0.019	3360	16x32	0.018	4200			
		16x20	0.016	3240	16x25	0.019	3310						

RADIAL TYPE