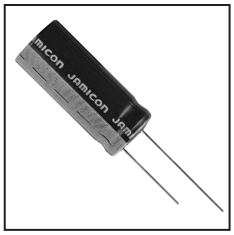
- Endurance : 125°C, 2000~5000hrs
- Recommended Applications : Applicable for Electronic Ballast, Lighting Ballast
- Corresponding product to RoHS

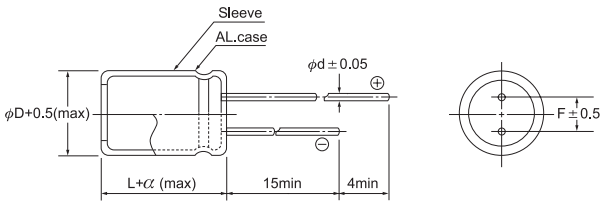


SPECIFICATION

Item	Characteristic												
Operation Temperature Range	-40 ~ +125°C						-25 ~ +125°C						
Rated Working Voltage	10 ~ 63VDC						160 ~ 450VDC						
Capacitance Tolerance (120Hz 20°C)	±20% (M)												
Leakage Current (20°C)	I =0.01CV or 3 μA						I =0.1CV+40μA(CV≦1000) I =0.04CV+100μA(CV＞1000)						
	Whichever is greater after 2 minutes I : Leakage Current(μA) C : Rated Capacitance(μF) V : Working Voltage(V)												
Surge Voltage (20°C)	W.V.	10	16	25	35	50	63	160	200	250	350	400	450
	S.V.	13	20	32	44	63	79	200	250	300	400	450	500
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF												
	W.V.	10	16	25	35	50	63	160	200	250	350	400	450
	tan δ	0.19	0.16	0.14	0.12	0.14	0.14	0.20	0.20	0.20	0.24	0.24	0.24
Low Temperature Stability	Impedance ratio at 120Hz												
	Rated Voltage (V)	10	16	25	35	50	63	160	200	250	350	400	450
	-25°C / +20°C	3	2	2	2	2	2	3	3	3	6	6	6
	-40°C / +20°C	6	4	4	4	4	3	–	–	–	–	–	–
Load Life	After 2000~5000 hours application of W.V. at +125°C, the capacitor shall meet the following limits.												
	Rated Voltage Range	10~63VDC						160~450VDC					
	Dφ	8φ		10φ		≧12.5φ		2000hrs					
	Life (hours)	2000hrs		3000hrs		5000hrs							
	Capacitance Change	≦±30% of initial value						Within±20% of initial value					
	Dissipation Factor	≦300% of initial specified value						≦200% of initial specified value					
	Leakage current	≦initial specified value						≦initial specified value					
Shelf Life	At +125°C no voltage application after 1000 hours the capacitor shall meet the following limits. (With voltage treatment)												
	Rated Voltage Range	10~63VDC						160~450VDC					
	Capacitance Change	≦±30% of initial value						Within±20% of initial value					
	Dissipation Factor	≦300% of initial specified value						≦200% of initial specified value					
	Leakage current	≦500% of initial specified value						≦500% of initial specified value					

DIMENSIONS (mm)

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



RIPPLE CURRENT COEFFICIENTS

Temperature(°C)	≦70	85	105	125
Coefficient	1.9	1.75	1.40	1.00

Frequency(Hz)		120	1k	10k	50~100k
10~63WV	CAP≦10	0.40	0.75	0.90	1.00
	10<CAP≦100	0.50	0.85	0.95	1.00
	100<CAP≦1000	0.60	0.85	0.96	1.00
	1000<CAP	0.75	0.90	0.98	1.00
10~63WV	CAP≦33	1.00	1.50	1.75	1.80
	CAP≦47	1.00	1.30	1.40	1.50

CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 125°C 100kHz

V(DC) / Item / μF	10		16		25	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
100					8x11	340
220	8x11	340	8x11	340	10x12.5	500
330	10x12.5	500	10x12.5	500	10x16	630
470	10x16	630	10x20	770	10x20	770
1000	10x20	770	12.5x20	920	12.5x25	1250
2200	12.5x25	1250	16x25	1380	16x32	1450
3300	16x25	1380	16x32	1450		
4700	16x32	1450	16x32	1720		

V(DC) / Item / μF	35		50		63	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
47			8x11	245	8x11	245
100	10x12.5	340	10x12.5	415	10x15	455
220	10x16	500	10x20	491	12.5x20	665
330	10x20	770	12.5x20	665	12.5x25	995
470	12.5x20	920	12.5x25	995	16x25	1000
1000	16x25	1380	16x32	1280		

Case size : D x L (mm)
Max ripple current : mA(rms) 125°C 120Hz

V(DC) / Item / μF	160		200		250	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
2.2					8x11	28
3.3	8x11	28	8x11	28	10x12.5	32
4.7	10x12.5	40	10x12.5	40	10x16	45
10	10x16	60	10x20	78	10x20	78
22	10x20	115	10x25	126	12.5x20	128
33	10x25	154	12.5x20	157	12.5x25	171
47	12.5x20	187	12.5x25	204	16x25	225
68	12.5x25	245	16x20	250	16x32	292
100	16x25	329	16x25	329		
150	16x32	434				

V(DC) / Item / μF	350		400		450	
	DxL	R.C.	DxL	R.C.	DxL	R.C.
1.0	8x11	25	10x12.5	28	8x16	25
2.2	10x12.5	32	10x16	35	10x16	32
3.3	10x16	45	10x16	42	10x20	40
4.7	10x20	53	10x20	53	10x25	58
10	10x25	85	10x25	86	12.5x20	86
22	12.5x25	139	12.5x30	142	16x25	154
33	16x25	189	16x25	189	16x32	203
47	16x32	243	16x32	243		