

LF

**Feature: 105°C Standard Downaized.
105°C 2,000 hours assured.**

SPECIFICATIONS

Item	Performance Characteristics								
Category Temperature Range	-25 to +105°C								
Working Voltage Range	200 to 450Vdc								
Capacitance Range	1 to 68 μ F								
Capacitance Tolerance	$\pm 20\%$ (at 25°C 120Hz)								
Dissipation Factor ($\tan \delta$) (at 25°C 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>200 to 250</th> <th>350</th> <th>400 to 450</th> </tr> </thead> <tbody> <tr> <td>$\tan \delta$ (Max)</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> </tr> </tbody> </table>	Rated Voltage (V)	200 to 250	350	400 to 450	$\tan \delta$ (Max)	0.15	0.20	0.20
Rated Voltage (V)	200 to 250	350	400 to 450						
$\tan \delta$ (Max)	0.15	0.20	0.20						
Leakage Current	$I \leq 0.03CV + 10 \mu A$ I: Leakage current. (μ A) C: Rated capacitance. (μ F) V: Rated voltage. (V) The rated voltage is impressed for two minutes.								
Endurance	After applying rated voltage to the capacitor for 2,000 hours at 105°C , the following characteristics shall be satisfied when the capacitor has been restored to 25°C . Capacitance change $\leq \pm 20\%$ of the initial value Dissipation factor ($\tan \delta$) $\leq 200\%$ of the specified value Leakage current \leq specified value								
Shelf Life	After exposing the capacitor for 500 hours at 105°C , without applying voltage, the following characteristics shall be satisfied when the capacitor has been restored to 25°C . Capacitance change $\leq \pm 20\%$ of the initial value Dissipation factor ($\tan \delta$) $\leq 200\%$ of the specified value Leakage current $\leq 200\%$ of the specified value								
Others	Conforms to JIS C-5141 (1991), characteristic W								

RIPPLE CURRENT MULTIPLIERS

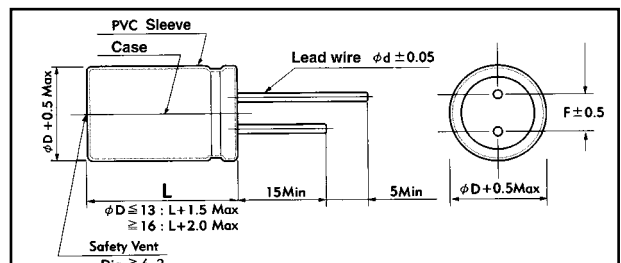
Temperature Multipliers

Temp (°C)	40	60	70	85	95	105
Factor	1.90	1.75	1.61	1.40	1.25	1.00

Frequency Multipliers

Vdc	Freq.(Hz)					
	Cap.(μ F)	50(60)	120	1K	10K	100K
200 to 450	1 to 68	0.80	1.00	1.40	1.60	1.60

DIMENSIONS(mm)



	5	6.3	8	10	13	16	18
ϕD	5	6.3	8	10	13	16	18
ϕd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5

LF
Case size & Permissible Ripple Current

Vdc μ F	200		250		350		400		450	
	1	5X11	18	5X11	16	6.3x11	16	6.3x11	18	6.3x11
2.2	6.3X11	27	6.3X11	26	6.3x11	28	8x12	33	10x12	28
2.7	6.3X11	30	6.3X11	30	8x12	35	8x12	38	10x12	35
3.3	6.3X11	33	8x12	35	10x12	41	10x12	41	10x16	38
4.7	8x12	43	8x12	41	10x16	49	10x16	55	10x20	41
5.6	8x12	46	8x12	49	10x16	55	10x16	60	10x20	48
6.8	8x12	61	8x12	66	10x16	60	10x20	62	13x20	51
8.2	8x12	66	10x12	71	10x16	71	13x20	82	13x20	62
10	10x12	82	10x16	81	10x20	88	13x20	100	13x25	78
15	10x16	88	10x20	104	13x20	110	13x20	145	13x25	104
22	10x20	132	13x20	143	13x20	126	13x25	180	16x25	130
33	13x20	175	13x20	171	16x20	215	16x25	235	16x32	185
47	13x25	215	13x25	230	16x25	290	16x32	290	16x36	215
68	16x25	230	16x25	275	16x32	300	18x36	340	18x36	245

↑ Case size φ DXL(mm) ↑ Ripple current (mA rms) at 105°C, 120Hz