

LS

**Feature: High ripple current capability.
High stability.**

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. (μA) C:Rated capacitance. (μF) V: Rated voltage. (V) The rated voltage is impressed for two minutes.								
Endurance	After applying rated voltage to the capacitor for 1,000 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

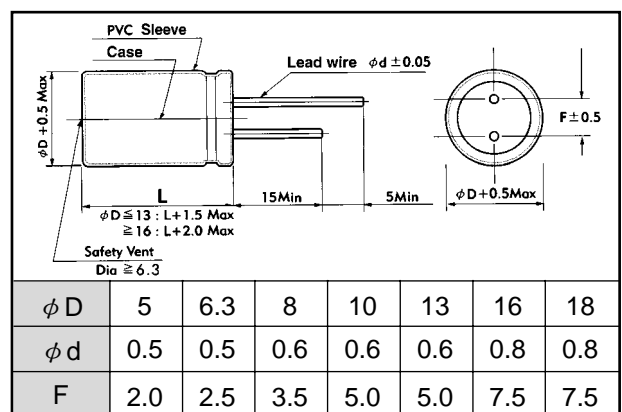
Temperature Multipliers

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

Frequency Multipliers

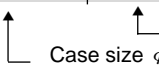
Vdc	Freq.(Hz)		50(60)	120	1K	10K	100K
	Cap.(μ F)						
200 to 450	1 to 68		0.80	1.00	1.40	1.60	1.60


DIMENSIONS(mm)



LS
Case size & Permissible Ripple Current

Vdc μ F	200		250		350		400		450	
	1	5X11	15	5X11	16	6.3x11	16	6.3x11	16	6.3x11
2.2	5X11	22	6.3X11	24	6.3x11	23	8x12	26	8x12	24
2.7	6.3X11	25	6.3X11	30	8x12	28	8x12	30	10x12	28
3.3	6.3X11	27	6.3X11	33	10x12	31	8x12	32	10x12	30
4.7	6.3X11	36	8x12	40	10x12	37	10x12	42	10x16	40
5.6	8x12	40	8x12	45	10x16	48	10x16	50	10x20	48
6.8	8x12	42	8x12	50	10x16	55	10x16	58	10x20	52
8.2	8x12	48	8x12	55	10x16	58	10x20	65	13x20	60
10	8x12	50	10x12	60	10x20	60	13x20	76	13x20	70
15	10x12	70	10x16	85	13x20	90	13x20	100	13x25	85
22	10x16	110	10x20	132	13x20	120	13x25	125	16x25	105
33	13x20	140	13x20	150	16x20	140	16x25	166	16x32	145
47	13x20	170	13x25	190	16x25	190	16x32	200	16x36	180
68	13x25	210	16x25	235	16x32	225	16x36	240	18x32	210


 Case size φ DXL(mm)


 Ripple current (mA rms) at 105°C, 120Hz