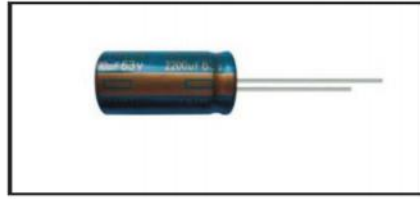


For switch-power supply systems



● FEATURES

Very excellent ripple current ability and low impedance
Load life: 105°C 2000~3000Hrs



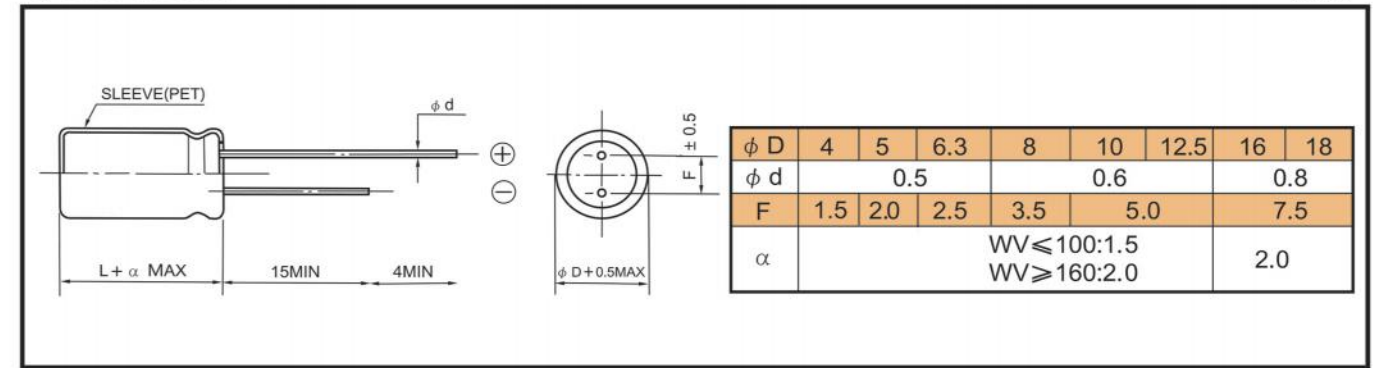
◆ SPECIFICATIONS

Item	Characteristics														
Operating Temperature Range	-40 ~ +105°C														
Rated Voltage Range (W.V)	6.3Vbc ~ 100Vbc														
Capacitance Tolerance	± 20% (M) (at 20°C, 120Hz)														
DC Leakage Current	$I \leq 0.01CV (\mu A)$ or $3\mu A$ 取大値 (at 20°C) After 2 minutes application of rated voltage														
Dissipation Factor	<table border="1"> <tr> <td>wv</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>TANδ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.1</td> </tr> </table>	wv	6.3	10	16	25	35	50	TANδ	0.22	0.19	0.16	0.14	0.12	0.1
	wv	6.3	10	16	25	35	50								
TANδ	0.22	0.19	0.16	0.14	0.12	0.1									
	<table border="1"> <tr> <td>wv</td> <td>63</td> <td>100</td> </tr> <tr> <td>TANδ</td> <td>0.09</td> <td>0.08</td> </tr> </table>	wv	63	100	TANδ	0.09	0.08								
wv	63	100													
TANδ	0.09	0.08													
	is over 1000 μF, TANδ shall be added 0.02 (at 20°C, 120Hz)														
Temperature Characteristics	Impedance ratio at 120Hz 6.3VDC, Z-40°C/Z20°C=8MAX. 10VDC, Z-40°C/Z20°C=6MAX. 16VDC, Z-40°C/Z20°C=4MAX. 25VDC~100VDC, Z-40°C/Z20°C=3MAX.														
Load Life	After 2000~3000 hours application of rated voltage at 105°C (φ 5~φ 8, 2000HRS, φ 10~φ 18, 3000HRS)														
	Capacitance Change	With in ±20% of the initial value													
	Dissipation Factor	Not more than 200% of the specified value													
	Leakage Current	Not more than the specified value													
Shelf Life	After storage for 1000 Hrs at +105°C with no voltage applied, the capacitor shall meet the specified limits for "Load Life"														
Others	JIS C 5141														

◆ MULTIPLIERFORRIPPLECURRENT

WV. (V. DC)	Capacitance (μF)	60HZ	120HZ	1KHZ	10KHZ	100KHZ
6.3~100WV	1.0~330	0.55	0.65	0.85	0.9	1.0
	390~1000	0.7	0.75	0.9	0.95	1.0
	1200~2200	0.75	0.8	0.9	0.95	1.0
	2700~15000	0.8	0.85	0.95	1	1.0

◆ DIMENSIONS (mm)



◆ STANDARDS (mA) r. m s (100KHz/+105°C)

WV.(VDC)	6.3(0J)			10(1A)			16(1C)			25(1E)		
	φ D×L (mm)	Impedance (Ω) max. 20°C 100KHz	Ripple current	φ D×L (mm)	Impedance (Ω) max. 20°C 100KHz	Ripple current	φ D×L (mm)	Impedance (Ω) max. 20°C 100KHz	Ripple current	φ D×L (mm)	Impedance (Ω) max. 20°C 100KHz	Ripple current
47(470)				5×11	0.80	175	5×11	0.80	175	5×11	0.80	175
100(101)	5×11	0.80	175	5×11	0.80	175	6.3×11	0.22	340	6.3×11	0.22	340
150(101)	6.3×11	0.22	340	6.3×11	0.22	340	6.3×11	0.22	340	6.3×11	0.22	340
220(221)	6.3×11	0.22	340	6.3×11	0.22	340	6.3×11	0.22	340	8×12	0.12	640
330(331)	6.3×11	0.22	340	6.3×11	0.22	340	8×12	0.12	640	8×12	0.12	640
				8×12	0.12	640				10×12.5	0.063	900
470(471)	8×12	0.12	640	8×12	0.12	640	8×12	0.12	640	8×16	0.062	860
560(561)	8×12	0.12	640	8×12	0.09	640	10×12.5	0.063	900	10×16	0.049	1240
										10×16	0.049	1240
680(681)	8×12	0.09	640	8×12	0.09	640	8×16	0.062	860	10×16	0.049	1240
				8×16	0.062	860	10×12.5	0.063	900			
820(821)	8×12	0.09	640	8×16	0.062	860	8×20	0.044	1220	10×20	0.046	1400
	10×12.5	0.08	900	10×12.5	0.063	900						
1000(102)	8×12	0.09	640	8×16	0.062	860	10×16	0.049	1240	10×20	0.046	1400
	8×16	0.062	860									
	10×12.5	0.063	900									
1200(122)	8×16	0.062	860	8×20	0.044	1220	10×20	0.046	1400	10×20	0.046	1400
	10×12.5	0.063	900									
1500(152)	8×20	0.044	1220	10×20	0.046	1400	10×20	0.046	1400	10×25	0.042	1650
	10×16	0.049	1240							13×20	0.035	1900
1800(182)	10×20	0.046	1400	10×20	0.046	1400	13×20	0.035	1900	13×25	0.03	2124
2200(222)	10×20	0.046	1400	10×20	0.046	1400	13×20	0.035	1900	13×25	0.03	2124
3300(332)	10×25	0.042	1650	13×25	0.03	2124						
	13×20	0.035	1900									
4700(472)	13×25	0.03	2124									
6800(682)	16×25	0.026	2330									
10000(103)	16×31.5	0.025	2640									

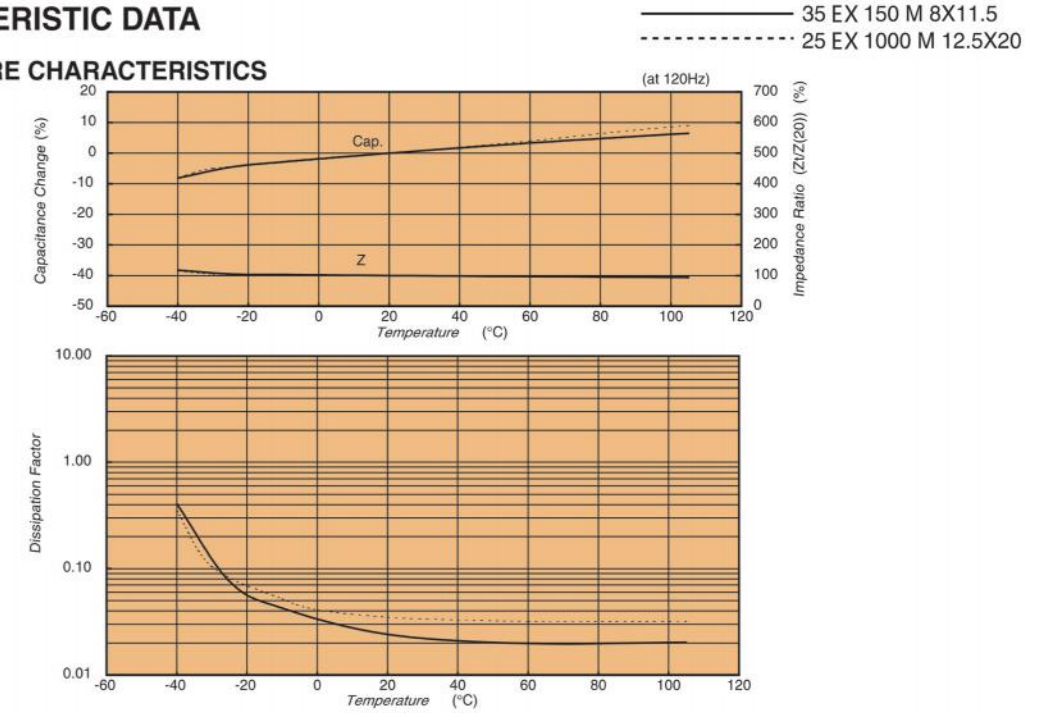
◆ STANDARDS

WV.(VDC) CAP. (μF)	35 (1V)			50 (1H)			63 (1J)			100 (2A)		
	φ D×L (mm)	Impedance (Ω) max. 20°C 100KHz	Ripple current	φ D×L (mm)	Impedance (Ω) max. 20°C 100KHz	Ripple current	φ D×L (mm)	Impedance (Ω) max. 20°C 100KHz	Ripple current	φ D×L (mm)	Impedance (Ω) max. 20°C 100KHz	Ripple current
1 (010)				5×11	2.40	20						
2.2 (2R2)				5×11	1.80	45						
3.3 (3R3)				5×11	1.30	65						
4.7 (4R7)				5×11	1.30	95						
10 (100)	5×11	0.80	175	5×11	1.30	125			6.3×11	0.96	115	
15 (150)	5×11	0.80	175	5×11	1.30	145			6.3×11	0.96	115	
22 (220)	5×11	0.80	175	5×11	1.30	155	6.3×11	0.96	115	8×12	0.68	260
33 (330)	5×11	0.80	175	6.3×11	0.6	260	6.3×11	0.96	115	8×16	0.45	340
47 (470)	6.3×11	0.22	340	6.3×11	0.6	260	8×12	0.34	405	10×16	0.36	400
56 (560)	6.3×11	0.22	340	8×12	0.234	360	8×12	0.34	405	10×20	0.24	463
68 (680)	6.3×11	0.22	340	8×12	0.234	485	8×12	0.34	405	10×20	0.24	463
100 (101)	8×12	0.09	640	10×12.5	0.12	760	8×16	0.23	535	13×20	0.18	671
							10×12.5	0.256	535			
150 (151)	8×12	0.09	640	10×16	0.084	1050	8×20	0.178	690	13×25	0.11	807
220 (221)	8×12	0.09	640	8×20	0.084	1050	10×20	0.147	885	16×25	0.089	1170
	8×16	0.062	860	10×16	0.084	1050						
	10×12.5	0.063	900									
330 (331)	8×20	0.044	1220	10×16	0.084	1050	13×20	0.085	1285	16×31.5	0.062	1520
	10×12.5	0.063	900	10×20	0.056	1400				18×25	0.07	1420
	10×16	0.049	1240									
470 (471)	10×16	0.049	1240	13×20	0.056	1400	16×20	0.059	1765	18×35	0.041	1770
	10×20	0.046	1400	13×25	0.034	1950						
680 (681)	10×20	0.046	1400	16×25	0.034	2215	16×25	0.05	2160			
1000 (102)	13×20	0.035	1900	16×25	0.034	2215	16×31.5	0.043	2670			
	13×25	0.03	2124									
2200 (222)	16×25	0.026	2330									

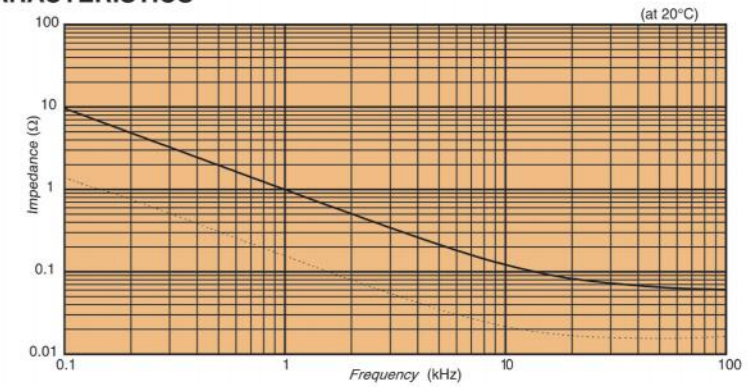
(mA) r. m s (100KHz/+105°C)

◆ CHARACTERISTIC DATA

• TEMPERATURE CHARACTERISTICS



• FREQUENCY CHARACTERISTICS



• ENDURANCE

