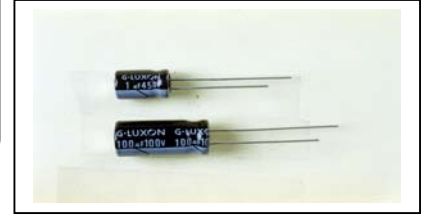


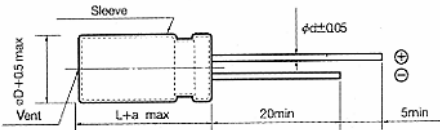
- |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>■ Features</li> <li>• Lifetime:125°C,1000hrs</li> <li>• High temperature</li> <li>• High reliability</li> <li>• High frequency</li> <li>• High ripple current &amp; Low ESR</li> </ul> | <ul style="list-style-type: none"> <li>■ Recommended Applications</li> <li>• AV(TV, Video, Audio)</li> <li>• Monitor/Computer</li> <li>• OA/HA/Communication</li> <li>• Converter/Inverter</li> <li>• AC Adapter</li> <li>• SMPS</li> </ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



**Specifications**

Items	Characteristics											
Capacitance Tolerance	±20% (M) (120Hz,20°C)											
Rated Voltage Range (WV)	6.3~100 VDC						160~250 VDC					
Operating Temperature Range	-40 ~ +125°C						-25 ~ +125°C					
Surge Voltage (V) (20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250
	SV	8	13	20	32	44	63	79	125	200	250	300
Leakage Current (Max)	I ≤ 0.01CV or 3 μ A whichever is greater (After rated voltage applied for 2 minutes)						I ≤ 0.03CV+10 μ A (After rated voltage applied for 3 minutes)					
	I= Leakage Current (μ A) C= Nominal Capacitance (μ F) V= Rated Voltage (V) (20°C)											
Dissipation Factor (Max) (tan δ) (120Hz, 20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250
	tan δ	0.20	0.15	0.12	0.10	0.09	0.08	0.08	0.08	0.08	0.15	0.15
When nominal capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F.												
Low Temperature Stability Impedance Ratio(Max)	Z (120Hz)	WV										
	Z(-25°C) / Z(20°C)	6.3	10	16	25	35	50	63	100	160	200	250
	Z(-40°C) / Z(20°C)	4	3	2	2	2	2	2	2	3	3	3
Load Life	After applying rated voltage for 1000 hours at 125°C, the capacitor shall meet the following requirement.											
	Capacitance Change	Within ±20% of the initial value										
	Dissipation Factor	Not more than 200% of the specified value										
Shelf Life	After placed at 125°C without voltage applied for 500 hours, the capacitor shall meet the same requirement as load life.											
	Others											
Satisfied JIS C-5141												

**Dimensions (mm)**



φ D	8	10	13	16
P	3.5	5.0	5.0	7.5
φ d	0.6	0.6	0.6	0.8
a	1.0	1.0	2.0	2.0

**Multiplier for Ripple Current**

**Frequency coefficient**

Cap (μ F)	50	120	1K	10K	100K
3.3~4.7	0.26	0.40	0.68	0.78	1.00
10~47	0.35	0.50	0.76	0.87	1.00
100~220	0.58	0.70	0.85	0.90	1.00
330~1000	0.70	0.70	0.93	0.98	1.00
2200~6800	0.85	0.90	0.95	1.00	1.00

**Temperature coefficient**

Ambient Temperature (°C)	≤ 50	70	85	105
Coefficient	1.90	1.75	1.40	1.00



CASE SIZE ( $\phi$  DxL(mm)) & MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 100KHz,125°C)

wv	6.3		10		16		25		35		50		63	
$\mu$ F \diagdown SPEC	$\phi$ DxL	RC	$\phi$ DxL	RC	$\phi$ DxL	RC	$\phi$ DxL	RC	$\phi$ DxL	RC	$\phi$ DxL	RC	$\phi$ DxL	RC
22													8x11	240
33											8x11	270	8x11	270
47									8x11	290	8x11	320	10x12.5	400
100					8x11	350	8x11	390	10x12.5	490	10x17	610	10x17	660
220	8x11	360	8x11	420	10x12.5	600	10x17	780	10x17	830	13x20	1110	13x20	1210
330	8x11	440	10x12.5	600	10x17	850	10x20	1020	13x20	1250	13x20	1350	13x25	1630
470	10x12.5	620	10x17	820	10x17	1010	13x20	1400	13x20	1490	13x25	1770	13x36	2220
1000	10x17	710	13x20	1480	13x20	1810	13x25	2240	13x36	2730	13x40	3190		
2200	13x20	1730	13x25	2150	13x36	2500	13x40	3330						
3300	13x25	2240	13x30	2880										
4700	13x30	2790	13x40	3520										
6800	13x40	3580												

wv	100		160		250	
$\mu$ F \diagdown SPEC	$\phi$ DxL	RC	$\phi$ DxL	RC	$\phi$ DxL	RC
3.3	8x11	140	10x12.5	160	10x25	220
4.7	8x11	160	10x15	200	10x30	300
10	10x12.5	190	10x20	280	13x25	380
22	10x17	320	13x20	400	13x30	500
33	10x20	420	13x25	500	13x40	630
47	13x20	570	13x36	650	16x32	1020
100	13x30	980	16x32	1060		