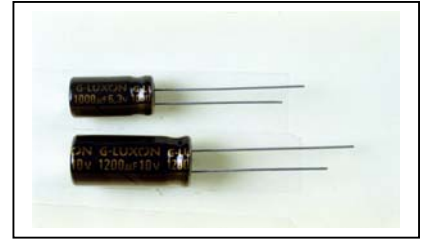




LY Series

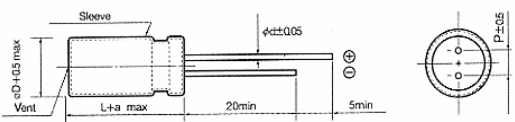
Specifications

- Features**
 - Lifetime: 105°C, 2000~3000hrs
 - Long life
 - Low Impedance
- Recommended Applications**
 - AV(TV, Video, Audio)
 - Monitor/Computer
 - OA/HA/Communication
 - Converter/Inverter
 - Adapter
 - SMPS



Items	Characteristics							
Capacitance Tolerance	±20% (M) (120Hz, 20°C)							
Rated Voltage Range (WV)	6.3~50 VDC							
Operating Temperature Range	-55 ~ +105°C							
Surge Voltage (V) (20°C)	WV	6.3	10	16	25	35	50	
	SV	8	13	20	32	44	63	
Leakage Current (Max)	I ≤ 0.01CV or 3 μA whichever is greater (After rated voltage applied for 2 minutes)							
	I = Leakage Current (μA) C = Nominal Capacitance (μF) V = Rated Voltage (V) (20°C)							
Dissipation Factor (Max) (tan δ) (120Hz, 20°C)	WV	6.3	10	16	25	35	50	
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	
When nominal capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.								
Low Temperature Stability Impedance Ratio (Max)	Z (120Hz)	6.3	10	16	25	35	50	
	Z(-55°C) / Z(20°C)	4	3	3	3	3	2	
Load Life	After applying rated voltage for 2000~3000 hours at 105°C, the capacitor shall meet the following requirement.						Case(φ)	Life time(hrs)
	Capacitance Change	Within ±20% of the initial value					φ D ≤ 6.3	2000
	Dissipation Factor	Not more than 200% of the specified value					φ D = 8	2500
	Leakage Current	Not more than the specified value					φ D ≥ 10	3000
Shelf Life	After placed at 105°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	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φ d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
a	1.0	1.0	1.0	1.0	2.0	2.0	2.0

Multiplier for Ripple Current

Frequency coefficient

Cap (μF) \ Freq. (Hz)	50	120	1K	10K	100K
4.7~33	0.45	0.55	0.75	0.90	1.00
47~330	0.60	0.70	0.85	0.95	1.00
470~1000	0.65	0.75	0.90	0.98	1.00
1200~10000	0.75	0.80	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 & Max Ripple Current / Z

CASE SIZE (ϕ DxL(mm)) & MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 100KHz,105°C)
 & MAX IMPEDANCE (Z(Ω) / 100KHz,20°C)

wv	6.3			10			16			25			35		
SPEC μ F	ϕ DxL	RC	Z	ϕ DxL	RC	Z	ϕ DxL	RC	Z	ϕ DxL	RC	Z	ϕ DxL	RC	Z
220										8x14	850	0.072	10x16	1250	0.053
330							8x14	900	0.072	10x16	1250	0.053	10x20	1450	0.038
470							8x16	1100	0.053	10x16	1450	0.038	10x25	2000	0.023
680				8x16	1050	0.056	10x16	1450	0.038	10x20	1850	0.023	13x25	2350	0.021
1000	8x16	1150	0.053	10x16	1450	0.038	10x20	1850	0.023	13x20	2400	0.021	13x30	3050	0.018
1200	10x16	1450	0.038	10x20	1850	0.023	10x25	2200	0.022	13x25	2870	0.021	13x36	3520	0.016
1500	10x20	1850	0.023	10x25	2200	0.022	13x20	2400	0.021	13x30	3470	0.018	16x32	4200	0.015
2200	10x25	2200	0.022	13x20	2400	0.021	13x25	2800	0.018	16x32	4560	0.015			
3300	13x20	2400	0.021	13x25	2800	0.018	13x36	3450	0.015						
3900	13x25	2800	0.018	13x30	3320	0.016	16x36	4200	0.016						
4700	13x30	3320	0.016	13x36	3450	0.015									
5600	13x36	3450	0.015	16x32	4000	0.016									
6800	13x36	3800	0.016												

wv	50		
SPEC μ F	ϕ DxL	RC	Z
100	8x14	650	0.074
220	10x16	1400	0.042
330	10x25	1900	0.028
470	13x25	2630	0.027
680	13x30	2900	0.021
1000	18x32	4050	0.021