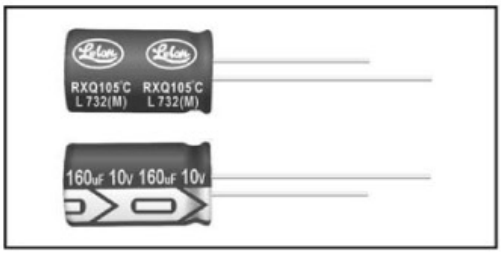
Feature

- 105℃, 8,000~10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller case size current
- RoHS Compliance



SPECIFICATIONS

Items	Performance
Rated Voltage Range	200 ~ 400V / 450V
Operating Temperature Range	-40℃ ~+105℃ / -25℃ ~+105℃
Capacitance Tolerance	±20% (at 120Hz, 20℃)

Leakage Current (at 20℃)

Time	after 1 minutes		after 5 minutes	
Leakage Current	CV ≦ 1000 I = 0.1CV+40(μA)	CV > 1000 I = 0.04CV+100(μA)	CV ≦ 1 000 I = 0.03CV+15(μA)	CV>1000 I = 0.02CV+25(μA)

Where, C = rated capacitance in μF V = rated DC working voltage in V

Dissipation Factor (Tan δ at 120Hz, 20℃)

Rated Voltage	160	200	250	350	400	450
Tan δ (max)	0.20	0.20	0.20	0.24	0.24	0.24

Low Temperature Characteristics (at 120Hz)

Impedance ratio shall not exceed the values given in the table below.

Rated Voltage		160	200	250	350	400	450
Impedance Ratio	Z(-25)/Z(+20℃)	3	3	3	5	5	6
	Z(-40)/Z(+20℃)	6	6	6	6	6	-

Load Life Test

Test Time	8,000 hrs for φD = 10mm; 10,000 hrs for φD ≥ 12.5mm
Capacitance Change	Within ±20% of initial value
Dissipation Factor	Less than 200% of specified value
Leakage Current	Within specified value

* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 8,000 / 10,000 hrs at 105°C.

Shelf Life Test

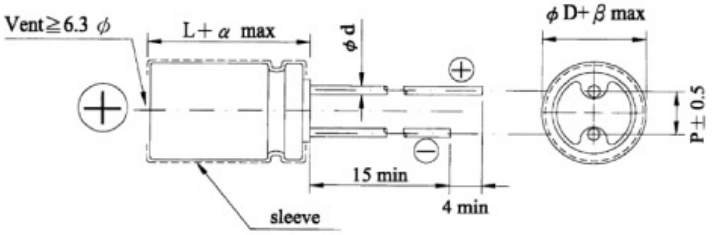
Capacitance Change	With in ±20% of initial value
Dissipation Factor	Less than 200% of specified value
Leakage Current	Less than 500% of specified value

* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hrs at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).

Ripple Current & Frequency Multipliers

Freg.(HZ)	120	1K	10K	100K up
Multipliers	0.4	0.68	0.90	1.0

DIAGRAM OF DIMENSIONS



LEAD SPACING AND DIAMETER Unit: mm

φD	10	12.5	16	18
P	5.0		7.5	
φd	0.6		0.8	
α	1.5			
β	0.5			

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φD × L(mm)
Ripple Current: mA/rms at 105°C

WV.DC / Contents μF	160V (2C)			200V (2D)			250V (2E)			350V (2V)			400V (2G)		
	φD×L	Ripple Current		φD×L	Ripple Current		φD×L	Ripple Current		φD×L	Ripple Current		φD×L	Ripple Current	
		120Hz	100KHz		120Hz	100KHz		120Hz	100KHz		120Hz	100KHz		120Hz	100KHz
6.8										10×16	110	275	10×16	110	275
10	10×16	125	315	10×16	125	315	10×20	140	350	10×20	140	350	10×20	140	350
22	10×20	200	500	10×20	200	500	10×20	200	500	12.5×20	260	650	12.5×20	260	650
33	10×20	250	625	10×20	260	650	12.5×20	320	800	16×20	360	900	16×20	360	900
47										16×20	430	1,075	16×25	470	1,175
	10×20	300	750	12.5×20	390	975	12.5×20	390	975				18×20	450	1,125
68	12.5×20	470	1,175	12.5×20	470	1,175	16×20	520	1,300	16×25	560	1,400	18×25	585	1,465
										18×20	550	1,375			
82	12.5×20	510	1,275	16×20	550	1,375	16×20	550	1,375	18×25	610	1,525	18×25	610	1,525
100	12.5×25	620	1,395	16×20	630	1,420	16×25	680	1,530	18×25	700	1,575	18×31.5	765	1,720
	16×20	630	1,420												
150	16×20	770	1,735	16×25	840	1,890	18×25	860	1,935	18×31.5	830	1,865	18×35.5	865	1,945
220	16×25	1,020	2,295	18×25	1,050	2,365	18×31.5	1,130	2,545	18×35.5	960	2,160	18×40	985	2,215
330	18×31.5	1,390	3,130	18×35.5	1,430	3,220									

WV.DC / Contents μF	450V (2W)		
	φD×L	Ripple Current	
		120Hz	100KHz
6.8	10×20	110	275
10	12.5×20	180	450
22	16×20	290	725
33	16×25	390	975
	18×20	380	950
47	18×25	480	1,200
68	18×31.5	630	1,575
82	18×35.5	715	1,785
100	18×40	800	1,800

Remark: The case size of 16×20, 18×20 and 18×25 are used flat type rubber bung