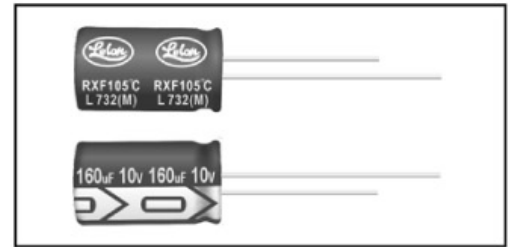


### Feature

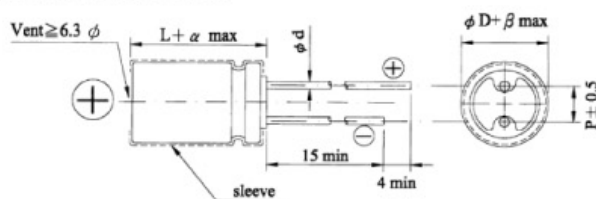
- 105°C, 8,000~10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller size with large permissible ripple current
- RoHS Compliance



### SPECIFICATIONS

Items	Performance					
Rated Voltage Range	200 ~ 400V			450V		
Operating Temperature Range	-40°C ~ +105°C			-25°C ~ +105°C		
Capacitance Tolerance	±20% (at 120Hz, 20°C)					
Leakage Current (at 20°C)	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°C)	Rated Voltage	200	250	350	400	450
	Tan δ (max)	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	200	250	350	400	450
	Impedance Ratio	Z(-25)/Z(+20°C)	3	3	5	5
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	Freq.(Hz)	120	1K	10K	100K up	
	Multipliers	0.4	0.68	0.9	1.0	

### DIAGRAM OF DIMENSIONS



### LEAD SPACING AND DIAMETER

Unit: mm

	10	12.5	16	18
φ D				
P	5.0		7.5	
φ d	0.6		0.8	
α		1.5		
β		0.5		

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

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

VDC Contents µF	200V (2D)		250V (2E)			350V (2V)			400V (2G)			450V (2W)			
	φ D × L	Ripple Current		φ D × L	Ripple Current		φ D × L	Ripple Current		φ D × L	Ripple Current		φ D × L	Ripple Current	
		120Hz	100KHz		120Hz	100KHz		120Hz	100KHz		120Hz	100KHz		120Hz	100KHz
4.7															
10					10×20	140	350			10×20	140	350	12.5×20	180	450
15										12.5×20	220	550	12.5×25	240	600
22	10×20	200	500	12.5×20	200	500	12.5×20	260	650	12.5×25	260	650	16×25	290	725
														16×20	270
33	12.5×20	260	650	12.5×25	320	800	16×20	360	900	16×25	360	900	16×31.5	390	975
47	12.5×20	390	975	12.5×25	390	975	16×25	430	1,075	16×31.5	470	1,175	18×31.5	480	1,200
68	12.5×25	470	1,175	16×25	520	1,300	16×31.5	560	1,400	16×35.5	575	1,445	18×35.5	630	1,575
100	16×25	630	1,420	16×31.5	680	1,530	18×31.5	700	1,575	18×35.5	765	1,720			
150	16×31.5	840	1,890	18×31.5	860	1,935									
220	18×31.5	1,050	2,365	18×40	1,130	2,545									
330	18×40	1,430	3,220												