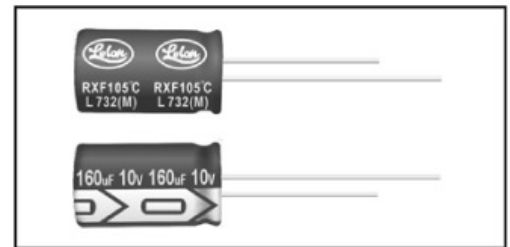


Feature

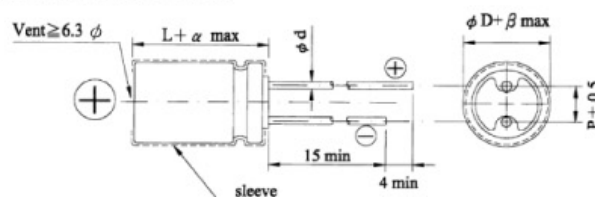
- 105°C, 8,000~10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller size with large permissible ripple current
- RoHS Compliance



SPECIFICATIONS

Items	Performance																	
Rated Voltage Range	200 ~ 400V			450V														
Operating Temperature Range	-40℃ ~ +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℃)	<table><tr><td>Rated Voltage</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Tan δ (max)</td><td>0.20</td><td>0.20</td><td>0.24</td><td>0.24</td><td>0.24</td></tr></table>						Rated Voltage	200	250	350	400	450	Tan δ (max)	0.20	0.20	0.24	0.24	0.24
	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℃)	3	3	5	5	6											
Z(-40)/Z(+20℃)		6	6	6	6	-												
Load Life Test	Test Time		8,000 hrs for φ D = 10mm; 10,000 hrs for φ D ≥ 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℃ after the rated voltage applied with rated ripple current for 8,000 / 10,000 hrs at 105℃.																		
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℃ after exposing them for 1,000 hrs at 105℃ 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

φ D	10	12.5	16	18
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																	10×20	90	240	
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	
33													16×20	270	680		18×20	280	705	
	12.5×20	260	650		12.5×25	320	800		16×20	360	900		16×25	360	900		16×31.5	390	975	
													18×20	450	1,125		18×25	380	950	
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	
					16×20	405	1,015		18×20	420	1,045		18×25	455	1,135					
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	
	16×20	490	1,225		18×20	505	1,265		18×25	550	1,375		18×31.5	585	1,465					
100	16×25	630	1,420		16×31.5	680	1,530		18×31.5	700	1,575		18×35.5	765	1,720					
	18×20	615	1,385		18×25	655	1,480													
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																	