



Aluminum Electrolytic Capacitors

RXQ

Features

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



Sleeve & Marking Color: Black & Golden

SPECIFICATIONS

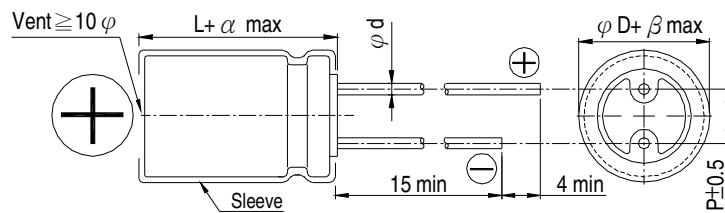
Items	Performance							
Category Temperature Range	160 ~ 400V				450V			
	-40℃ ~ +105℃				-25℃ ~ +105℃			
Capacitance Tolerance	±20% (at 120Hz, 20℃)							
Leakage Current (at 20℃)	Time		after 5 minutes					
	Leakage Current		CV ≤ 1,000 I = 0.03CV + 15(μA)		CV > 1,000 I = 0.02CV + 25(μA)			
			Where, 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	-
Endurance	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 hours at 105℃.							
Shelf Life Test	Test Time		1,000 Hrs					
	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 hours 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	Frequency (Hz)		120	1k	10k	100k up		
	Cap. (μ F)		1.00	1.75	2.25	2.50		
	6.8 ~ 82		1.00	1.67	2.05	2.25		
	100 up		1.00	1.67	2.05	2.25		



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DIAGRAM OF DIMENSIONS



Unit: mm

LEAD SPACING AND DIAMETER

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: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 105°C

$\frac{\text{V.DC}}{\text{Contents}}$ μF	160V (2C)				200V (2D)				250V (2E)				350V (2V)				400V (2G)			
	$\phi D \times L$	Ripple Current			$\phi D \times L$	Ripple Current			$\phi D \times L$	Ripple Current			$\phi D \times L$	Ripple Current			$\phi D \times L$	Ripple Current		
		120 Hz	100k Hz			120 Hz	100k Hz			120 Hz	100k Hz			120 Hz	100k Hz			120 Hz	100k Hz	
6.8													10×16	110	275		10×16	110	275	
10	10×16	125	313		10×16	125	313		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	10×20	300	750		12.5×20	390	975		12.5×20	390	975		16×20	430	1,075		16×25	470	1,175	
													18×20	450	1,125		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	1,463	
													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	1,418		16×25	680	1,530		18×25	700	1,575		18×31.5	765	1,721	
	16×20	630	1,418																	
120													18×31.5	830	1,868		18×35.5	865	1,946	
150	16×20	770	1,733		16×25	840	1,890		18×25	860	1,935		18×35.5	960	2,160		18×40	985	2,216	
220	16×25	1,020	2,295		18×25	1,050	2,363		18×31.5	1,130	2,543									
330	18×31.5	1,390	3,128		18×35.5	1,430	3,218													

$\frac{\text{V.DC}}{\text{Contents}}$ μF	450V (2W)			
	$\phi D \times L$	Ripple Current		
		120 Hz	100k Hz	
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	1,788	
100	18×40	800	1,800	

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

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